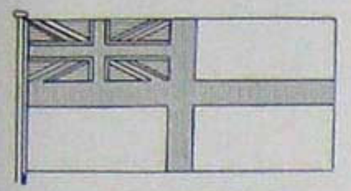
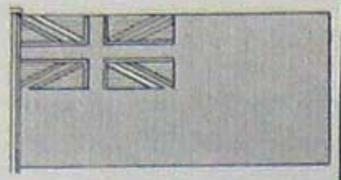
THE ROYAL NAVY

Flags.

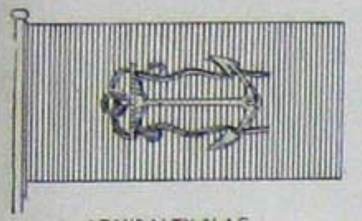


WHITE ENSIGN

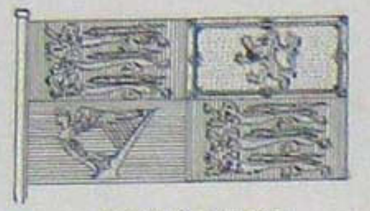
BLUE ENSIGN



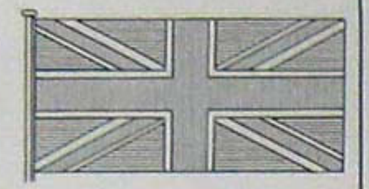
RED ENSIGN



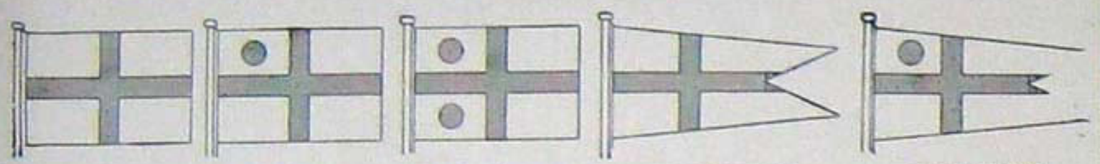
ADMIRALTY FLAG



ROYAL STANDARD



UNION FLAG



ADMIRAL | VICE-ADMIRAL | REAR-ADMIRAL | COMMODORE, SENIOR OFFICER (at yard-arm) | COMMODORE, SECOND CLASS

Note.—Admiral of the Fleet wears the Union flag at the main.

Board of Admiralty.

First Lord : The Right Hon. J. P. L. Thomas, Esq., M.P.
First Sea Lord and Chief of Naval Staff: Admiral of the Fleet Sir Rhoderick R. McGrigor, G.C.B., D.S.O.
Second Sea Lord and Chief of Naval Personnel: Admiral The Hon. Sir Guy H. E. Russell, G.B.E., K.C.B., D.S.O.
Third Sea Lord and Controller: Vice-Admiral R. A. B. Edwards, C.B., C.B.E.
Fourth Sea Lord and Chief of Supplies and Transport : Vice-Admiral S. M. Raw, C.B.E.
Fifth Sea Lord and Deputy Chief of Naval Staff (Air): Vice-Admiral Sir Edmund W. Anstice, K.C.B.
Vice Chief of Naval Staff : Vice-Admiral Sir Guy Grantham, K.C.B., C.B.E., D.S.O.
Deputy Chief of Naval Staff: Rear-Admiral G. Barnard, C.B.E., D.S.O. and Bar.
Parliamentary and Financial Secretary : Commander A. H. Noble, M.P.
Civil Lord : S. Wingfield Digby, Esq., M.P.
Permanent Secretary : Sir John Lang, K.C.B.

Some principal Admiralty officials (not on the Board):

Engineer-in-Chief of the Fleet: Vice-Admiral (E) F. T. Mason.
Director of Naval Construction : V. G. Shepheard, Esq., C.B., M.I.N.A.
Deputy Controller : Rear-Admiral J. W. Cuthbert, C.B.E.
Assistant Chief of Naval Staff : Rear-Admiral R. F. Elkins, C.V.O., O.B.E.

Uniforms.

Admiral of the Fleet. | Admiral. | Vice-Admiral. | Rear-Admiral and 1st Class Commodore. | 2nd Class Commodore. | Captain. | Commander. | Lieut.-Commander. | Lieut. | Sub.-Lieut. and Senior Commissioned Officer. | Commissioned Officer.

RELATIVE RANKS, NON-EXECUTIVE BRANCHES

Engineer Officers have same as above, with				purple cloth	between	stripes.
Electrical	,,	,,	,,	dark green	,,	,,
Ordnance Engineer	,,	,,	,,	purple	,,	,,
Supply and Secretariat	,,	,,	,,	white	,,	,,
Instructor	,,	,,	,,	light blue	,,	,,
Constructor	,,	,,	,,	silver grey	,,	,,
Shipwright	,,	,,	,,	silver grey	,,	,,
Medical	,,	,,	,,	scarlet	,,	,,
Dental	,,	,,	,,	orange	,,	,,
Wardmaster	,,	,,	,,	salmon pink	,,	,,
Special Branch, R.N.V.R.	,,	,,	,,	light green	,,	,,

RESERVE OFFICERS

"Qualified officers" of both the Royal Naval Reserve and the Royal Naval Volunteer Reserve wear same as above. (Applies in wartime only.)

Other officers of the permanent R.N.R. and R.N.V.R. wear same as above but with letter "R" inside the curl.

Officers of the R.N.V.R. Air Branch wear letter "A" instead of "R" inside curl.

Temporary officers of all categories wear similar to above but with "wavy" curl instead of circular curl. Temporary officers becoming qualified wear circular curl in wartime.

Temporary air officers wear "A" in "wavy" curl.

Colour of Ships.

Ships in commission : light grey hulls and superstructure with white topmasts. Ships in reserve : light grey overall. Submarines : Home, dark grey ; Mediterranean, royal blue ; Far East, dark green.
Destroyers, frigates, ocean minesweepers : Leaders have 4 ft. black band round top of first or visible funnel ; divisional leaders now have no funnel markings. All ships have their flotilla numbers painted on funnel.
Royal Fleet Auxiliaries have black hulls, light grey upperworks, light grey funnel with black top, except Fleet Train ships, which conform to Fleet painting.
Surveying vessels have white hulls and superstructure with buff masts and funnels.
Ships on Persian Gulf or Red Sea stations, have white hulls and superstructure.

Personnel.*

1947-48: 204,000
1948-49: 167,300
1949-50: 153,000
1950-51: 143,000
1951-52: 143,500
1952-53: 153,000
1953-54: 151,000

Navy Estimates.

1947-48: £196,700,000
1948-49: £153,000,000
1949-50: £189,250,000
1950-51: £193,000,000
1951-52: £278,500,000
1952-53: £332,250,000
1953-54: £329,500,000

*Officers and ratings. Figures includes Royal Marines, Women's Royal Naval Service, and Queen Alexandra's Royal Naval Nursing Service.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 6,200 vessels of 18,732,502 tons gross.

CORONATION NAVAL REVIEW

Foreign Cruisers and British Aircraft Carriers and Battleship being inspected by H.M. The Queen at Spithead, 15th June 1953

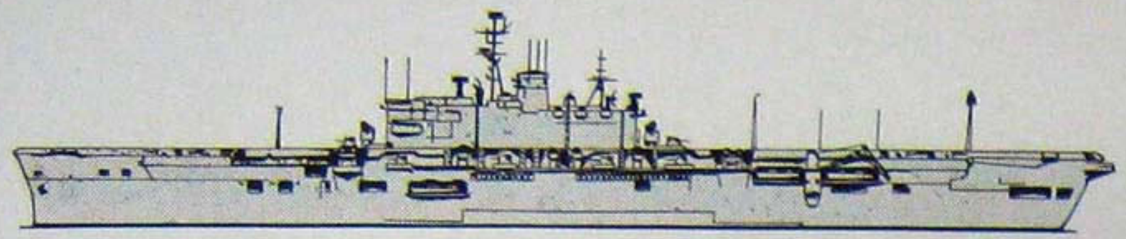
"The Aeroplane" Copyright photograph.

Italian training ship **Amerigo Vespucci**
Netherlands cruiser **Tromp**
Brazilian cruiser **Almirante Barroso**
Spanish cruiser **Miguel de Cervantes**
Swedish cruiser **Göta Lejon**
Russian cruiser **Sverdlov**
French cruiser **Montcalm**
United States cruiser **Baltimore**

Trinity House yacht **Patricia**
Royal Yacht **Surprise** (frigate)
Admiralty Yacht **Redpole** (frigate)
Admiralty guests **Starling** (frigate)
C.-in-C., Portsmouth guests **Fleetwood** (frigate)

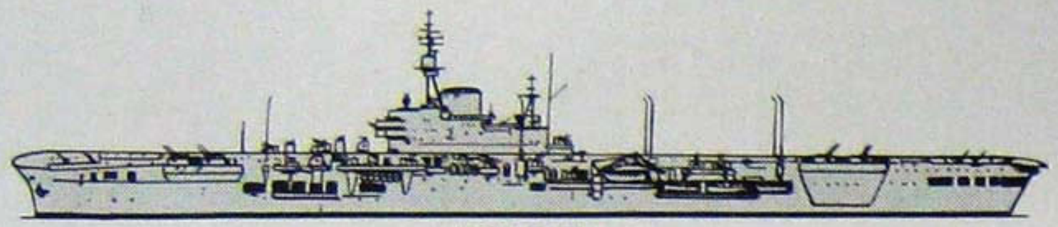
British ferry carrier **Perseus**
Australian aircraft carrier **Sydney**
Canadian aircraft carrier **Magnificent**
British aircraft carrier **Theseus**
British aircraft carrier **Illustrious**
British aircraft carrier **Indefatigable**
British aircraft carrier **Implacable**
British aircraft carrier **Indomitable**
British aircraft carrier **Eagle**
British battleship **Vanguard**

328R

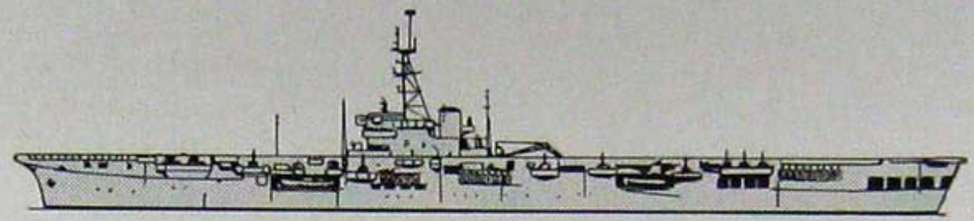


EAGLE.

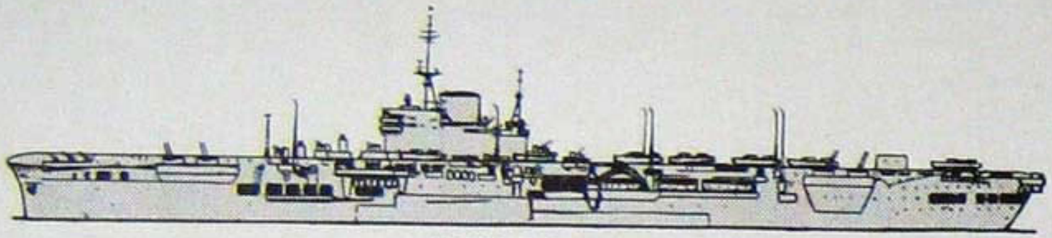
CENTAUR.



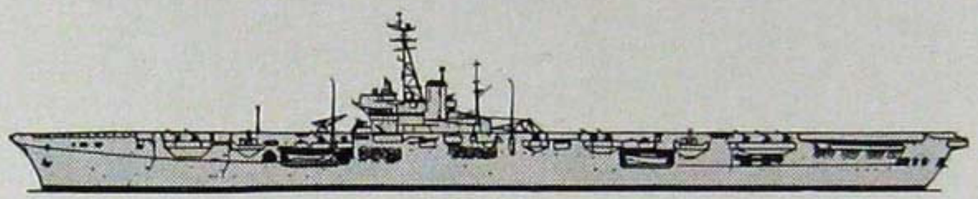
IMPLACABLE.



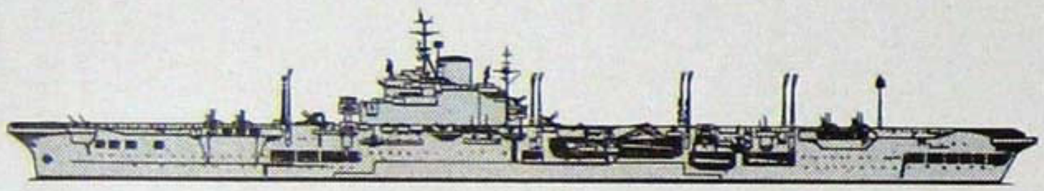
GLORY.



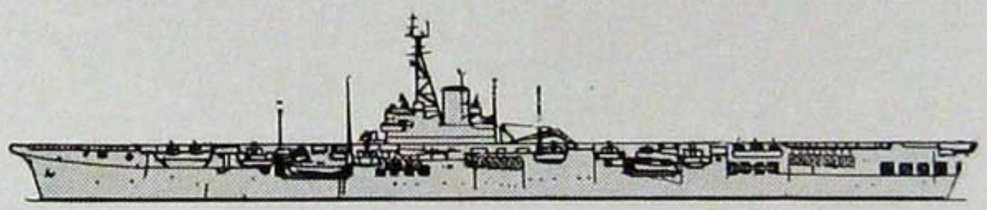
INDEFATIGABLE.



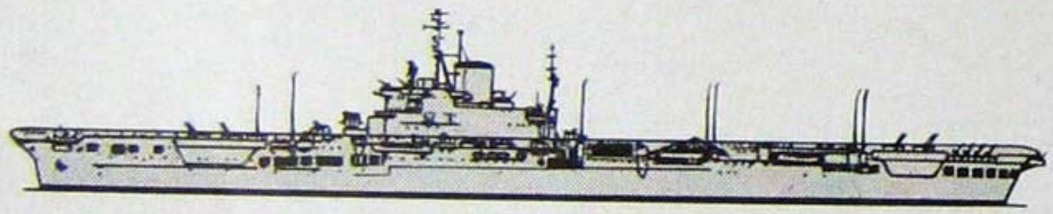
OCEAN.



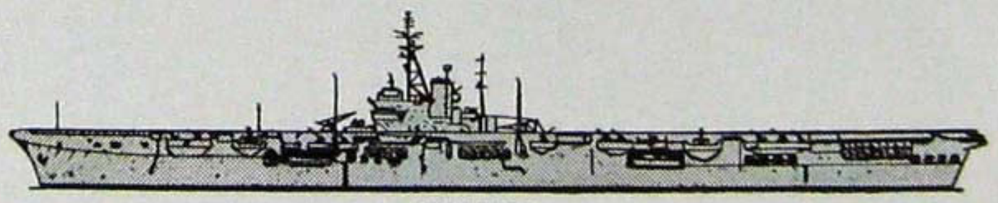
INDOMITABLE.



THESEUS and TRIUMPH.

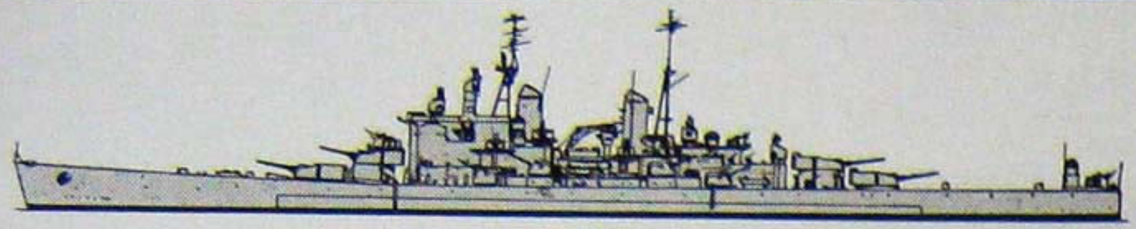


ILLUSTRIOUS.

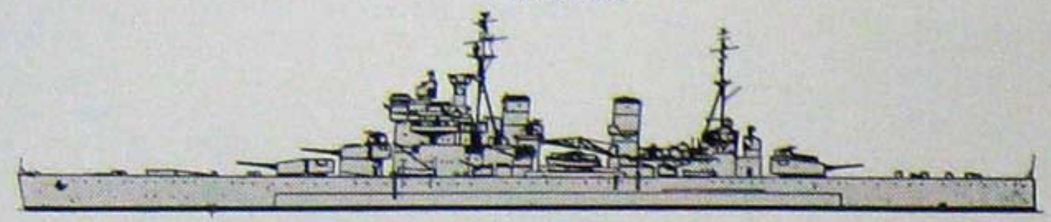


WARRIOR.

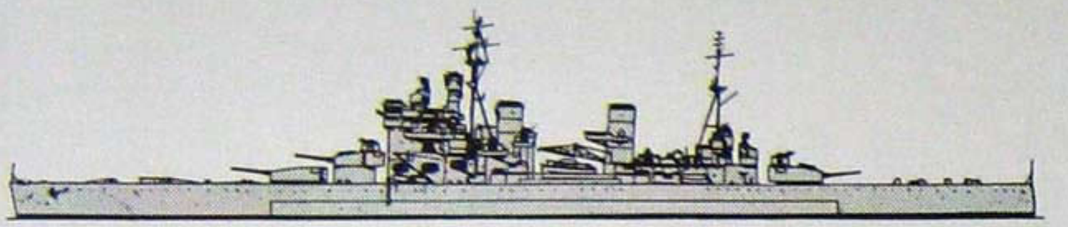
346



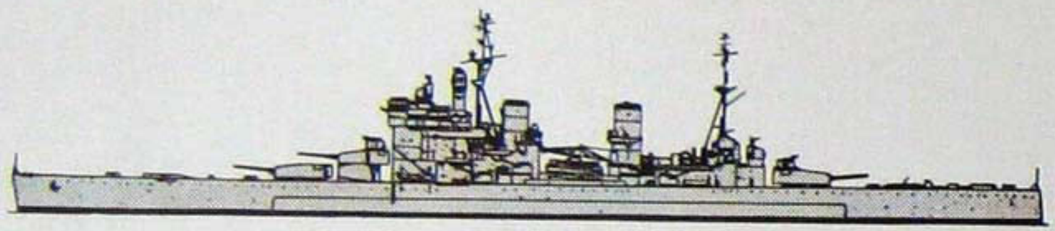
VANGUARD.



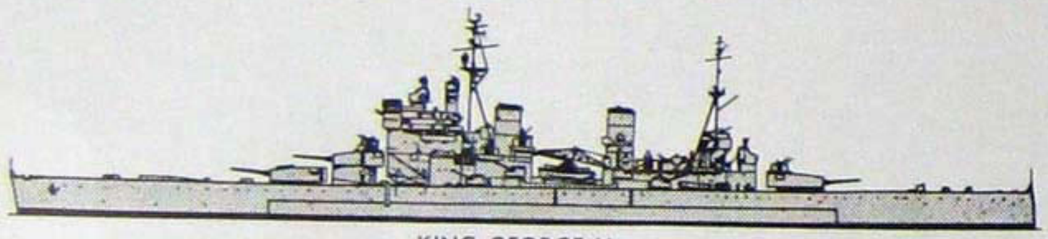
ANSON.
(Different type directors than in others of class, no gun on side or after funnel.)



DUKE OF YORK.
(Platform on after funnel.)

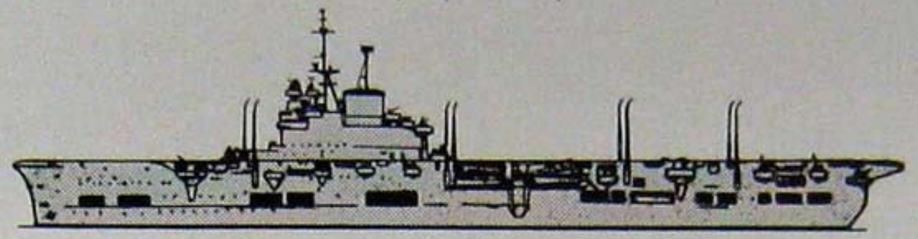


HOWE.
(Only ship with foremast yard at starfish level.)

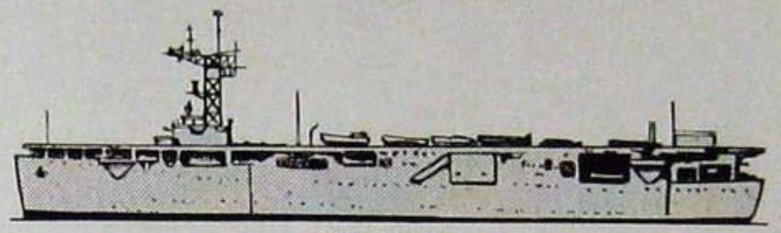


KING GEORGE V.
(S.L .on after funnel.)

PERSEUS (PIONEER similar).
(Ferry Carriers.)

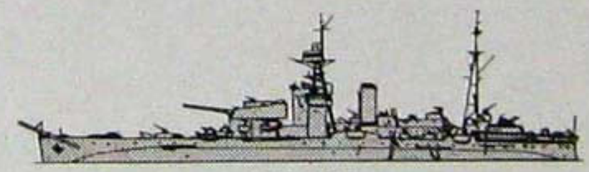


UNICORN.
(Ferry Carrier.)



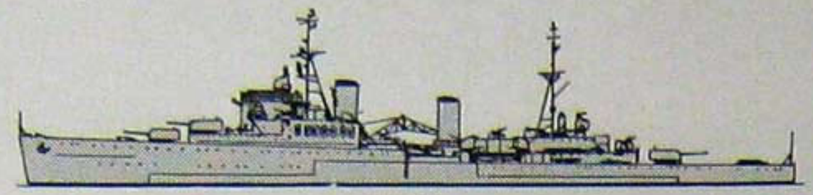
CAMPANIA.
(Ferry Carrier.)

ABERCROMBIE.
(Monitor.)



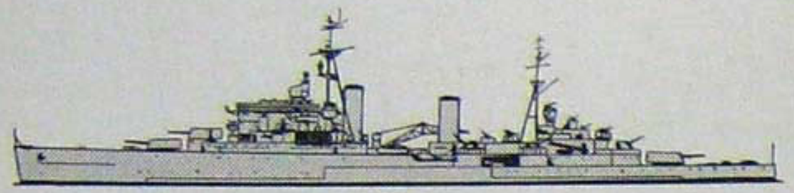
ROBERTS.
(Monitor.)

SUPERB.

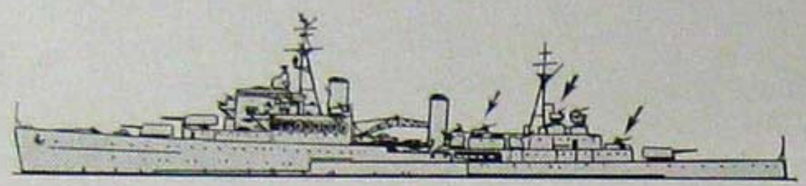


KENYA.
JAMAICA has homing beacon before after funnel and no tower close to mainmast.

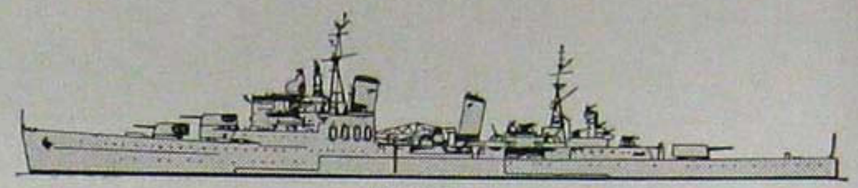
BIRMINGHAM, (NEWCASTLE with knuckle in bow)



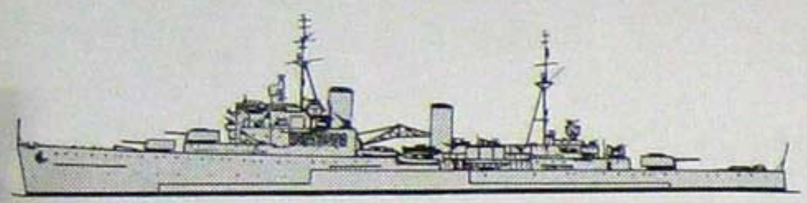
SWIFTSURE.



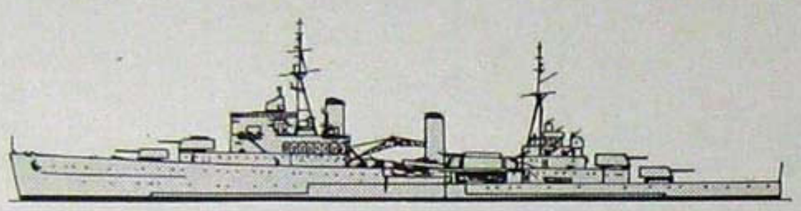
GAMBIA.



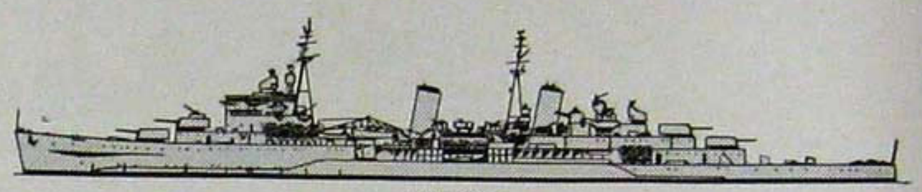
LIVERPOOL.



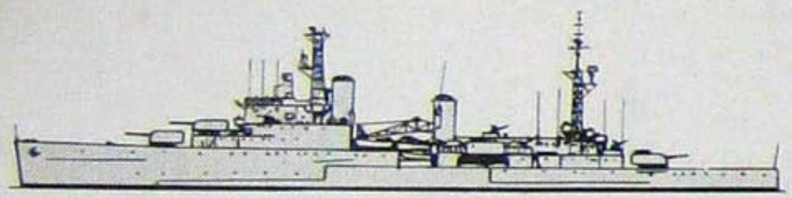
CEYLON.
(Only ship with D.T. raised.)



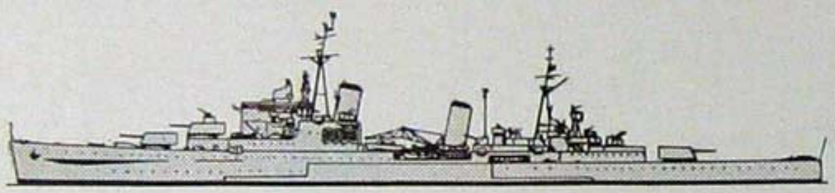
NIGERIA.
(Only ship of the class with 12—6 inch guns).



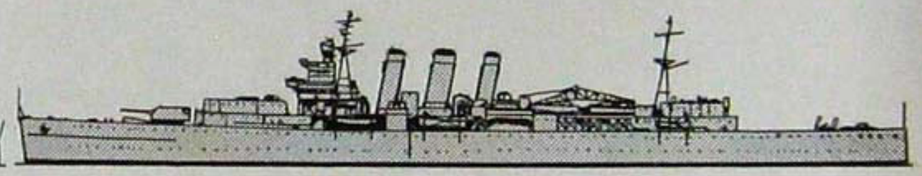
BELFAST.



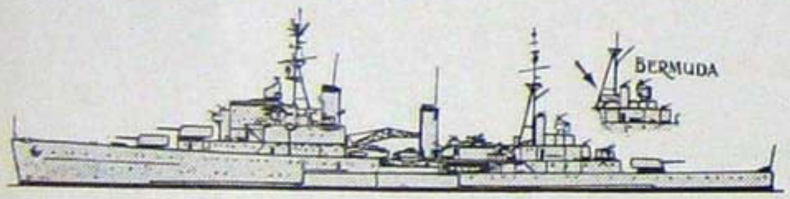
NEWFOUNDLAND.
(two lattice masts.)



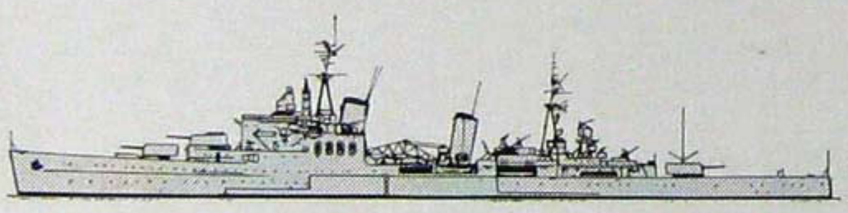
GLASGOW.
(Homing beacon abaft after funnel).



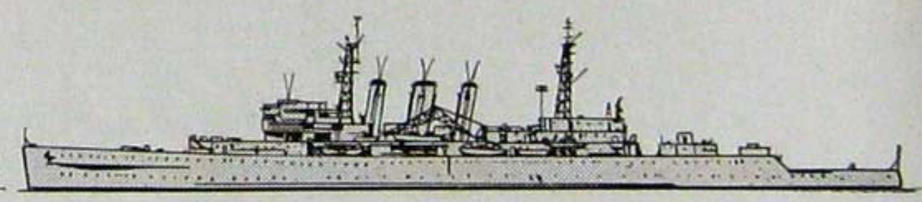
DEVONSHIRE.
Cadets' Training Cruiser. One 8 inch turret.



MAURITIUS.
BERMUDA as inset no whip aerials.



SHEFFIELD



CUMBERLAND.
Trials cruiser. All 8 inch turrets removed.

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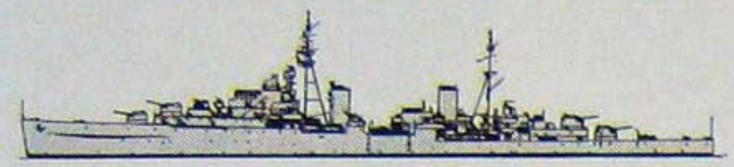
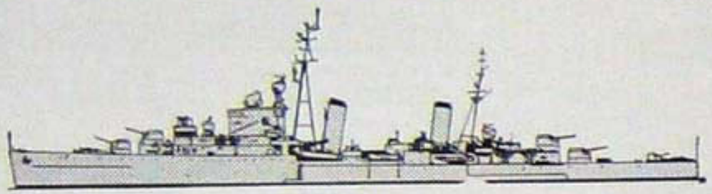


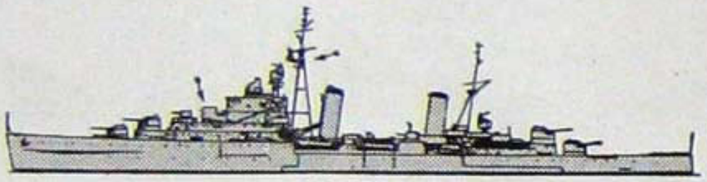
DIADEM.
ROYALIST without TT and with yard on mainmast lower.

CLEOPATRA.

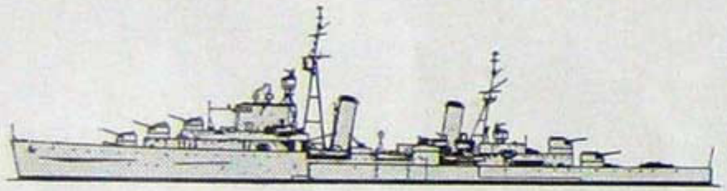
EURYALUS.



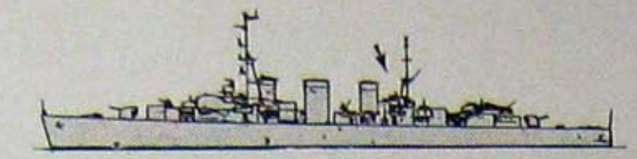
ARGONAUT.



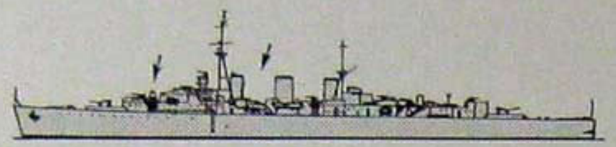
PHOEBE.
Spider on foremast higher than on others of this class.



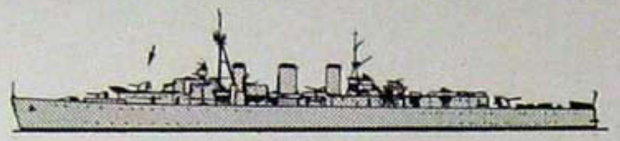
DIDO and SIRIU



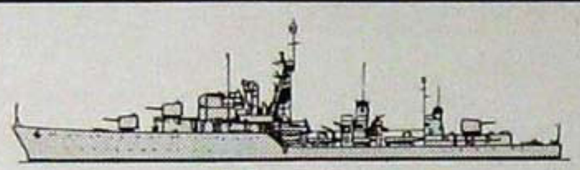
APOLLO.



ARIADNE.

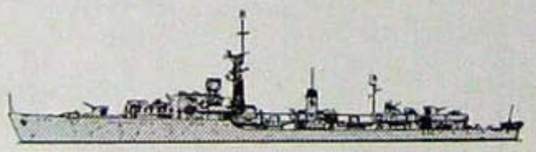


MANXMAN.



DARING *Class.*

CROSSBOW and SCORPION.



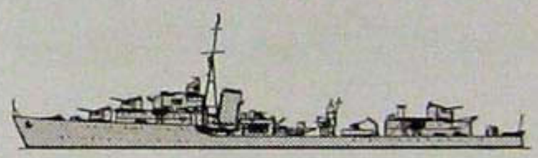
BATTLEAXE and BROADSWORD.

Later "BATTLE" *Class.*

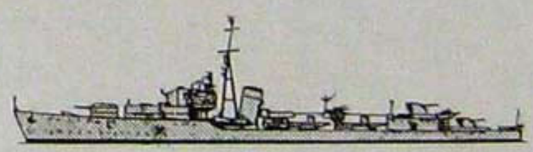
Early "BATTLE" *Class.*

FINISTERRE.

MILNE.
MATCHLESS with tall foremast.
MARNE no mainmast and shorter after superstructure.



MUSKETEER.



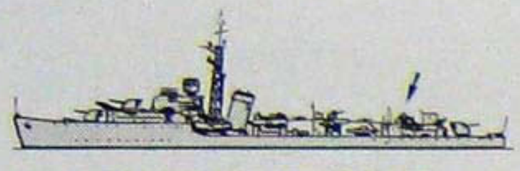
SAVAGE.

CARYSFORT and "Ca" Type.
Some without mainmast.

ZEST.

MYNGS.

PETARD.

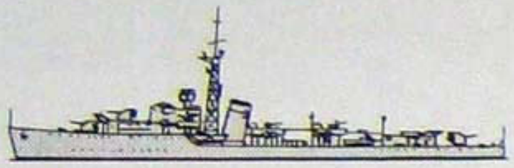


CHEQUERS, CHEVIOT, COCKADE.
Two squids, handing room instead of "X" gun.)

ZEPHYR.

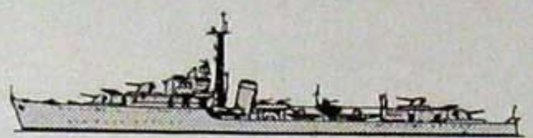
WIZARD
(Showing black top as Leader.)
WAGER similar.

OPPORTUNE.
("A" gun restored.)



CHIEFTAN, CHIVALROUS, CHILDERS
CHEVRON with mainmast (CHAPLET old close range armament.) All without "X" gun.

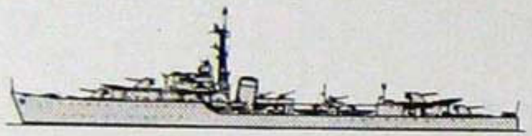
ZODIAC.



ULSTER.

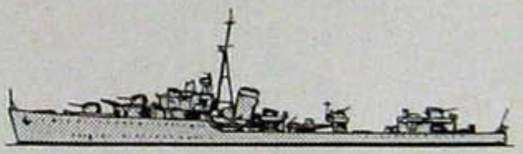
OBDURATE.
OBEDIENT similar but AA. type shields.

COMUS and "Co" Type.
Some without mainmast.
(CONTEST, COMET without "X" gun.)



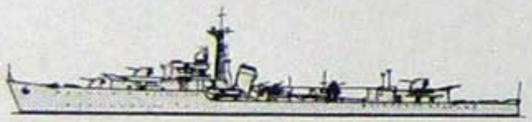
ZENITH.
and ZEBRA with mainmast.

URSA and URANIA.

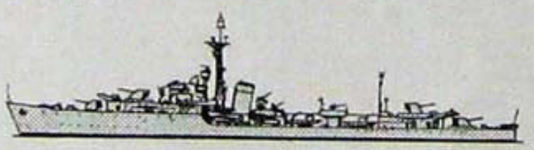


NIZAM.
NAPIER similar.

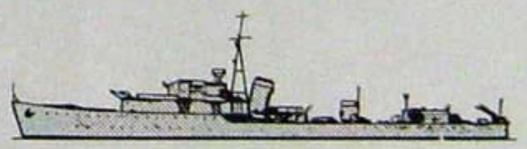
CREOLE and CRISPIN.



ZAMBESI.



TROUBRIDGE.



NEPAL.

3962

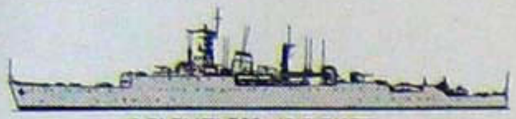
TENACIOUS *Type.*
(Fast Frigates. Limited Conversion.)

Later BLACK SWAN *Class.*

"BAY" *Class.*

"RIVER" *Class.*

STORK.



RELENTLESS, (ROCKET
with knuckle strake in bow)
(Fast A/S Frigates. Full Conversion.)

CRANE.

"LOCH" *Class.*

HELMSDALE.

BRECON, BRISSENDEN.
("HUNT" Group, Type IV.)

BLACK SWAN.

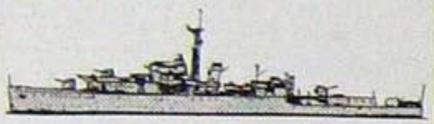
"CASTLE" *Class.*

DALRYMPLE.
COOK, DAMPIER, OWEN without
deckhouse in after superstructure
(Surveying Vessels.)
Modified Frigates.

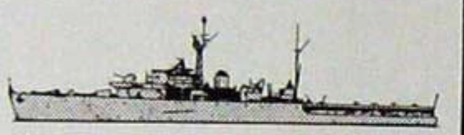
ALGERINE *Class.*
PLUTO without gun.
ROMOLA, TRUELOVE, WAVE
have gunhouse.
(Ocean Minesweepers.)

PLOVER.
(Minelayer.)

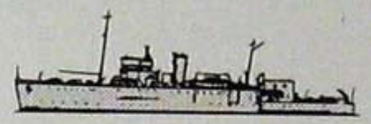
ALBRIGHTON *Class.*
("HUNT" Group, Type III.)
Various slight differences in class.



FLAMINGO, WREN.

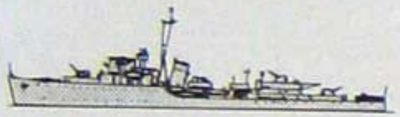


ALERT, SURPRISE (without guns)
(Despatch Vessels.)
Modified Frigates.



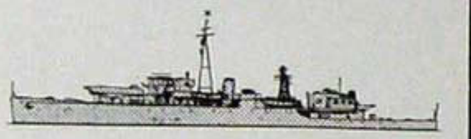
FRANKLIN.
SCOTT similar.
(Surveying Vessels.)
Modified Ocean Minesweepers.

LINNET.
(Coastal Minelayer.)

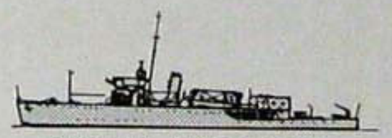


BLANKNEY *Class.*
("HUNT" Group, Type II.)
Individual ships vary.

WILD GOOSE.



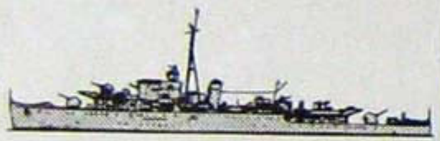
REDPOLE.
(Navigational Training Ship.)
Modified Frigate.



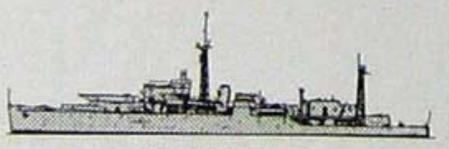
SEAGULL, SHACKLETON.
(Surveying Vessels.)
Modified Ocean Minesweepers.

REDSHANK.
(Controlled Minelayer.)

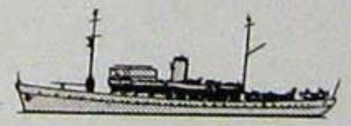
ATHERSTONE *Class.*
("HUNT" Group, Type I.)



PELICAN.

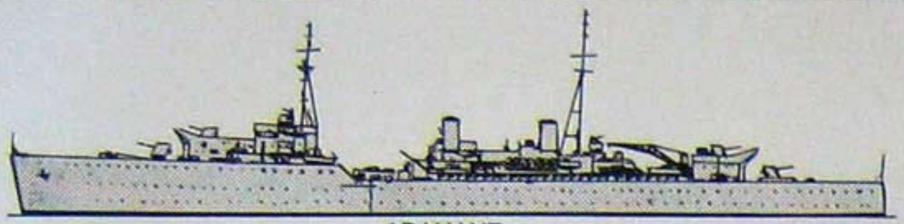


STARLING.
(Navigational Training Ship.)
Modified Frigate.

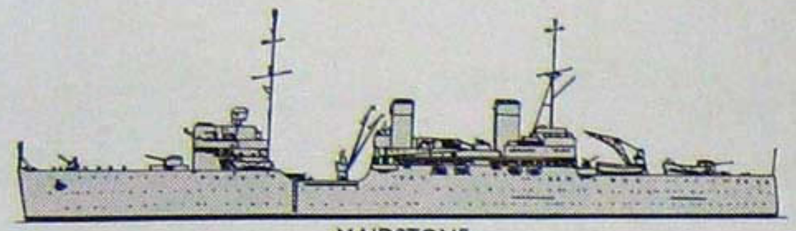


CHALLENGER.
(Surveying Vessel.)

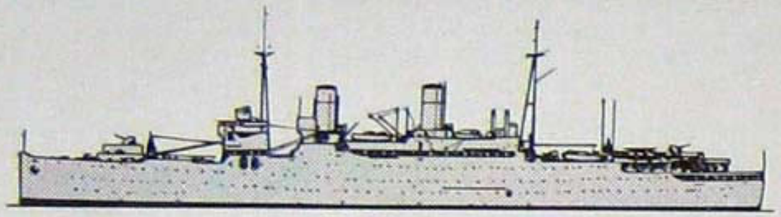
DABCHICK, STONECHAT.
(Controlled Minelayers.)



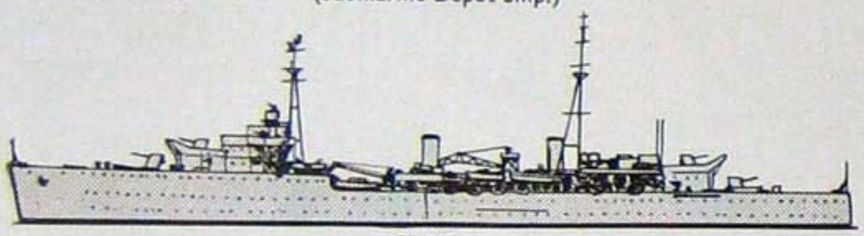
ADAMANT.
(Submarine Depot Ship.)



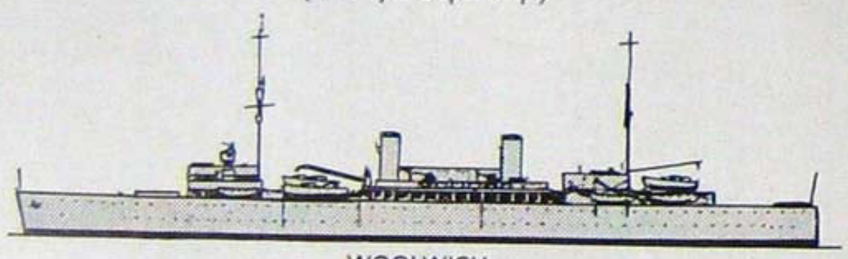
MAIDSTONE.
FORTH without gun in bows.
(Submarine Depot Ships.)



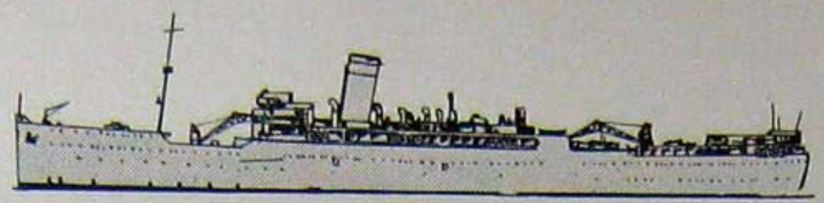
MONTCLARE.
(Submarine Depot Ship.)



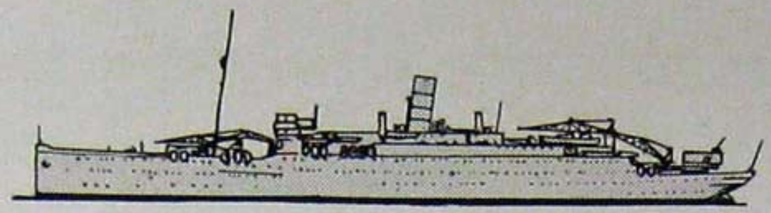
TYNE.
(Destroyer Depot Ship.)



WOOLWICH.
(Destroyer Depot Ship.)

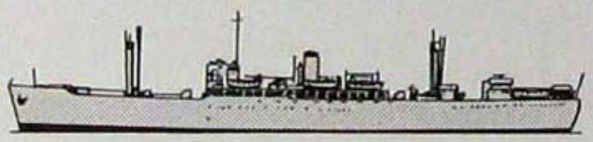


RANPURA.
(Heavy Repair Ship.)

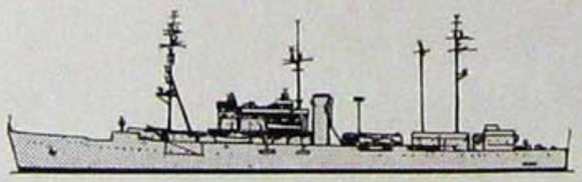


ALAUNIA.
AUSONIA with mainmast and with foremast abaft bridge.
(Heavy Repair Ships.)

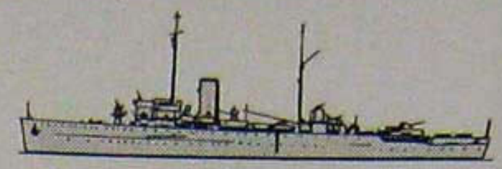
BULAWAYO.
(Fleet Replenishment Ship.)



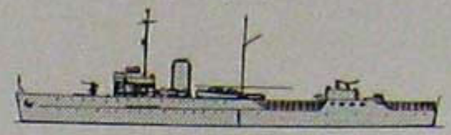
" FORT " *Class* (Fleet Supply Ships.)
" MULL " and " HEAD " Classes similar.



BOXER.
(Radar Personnel Training Ship.)



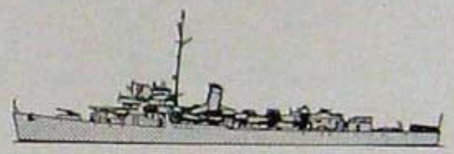
PROTECTOR.
(Netlayer.)



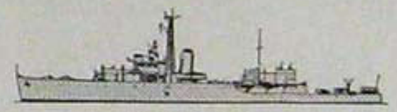
GUARDIAN.
(Netlayer.)

WOODBRIDGE HAVEN.
(Submarine Target Ship.)

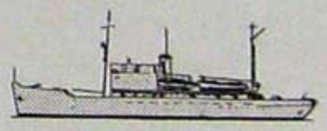
MEON.
(Landing Ship Headquarters.)



HOTHAM.
(Experimental gas-turbine ship.)



FLEETWOOD.
(Radio Trials Ship.)



RECLAIM.
(Deep Diving Ship.)

EAGLE

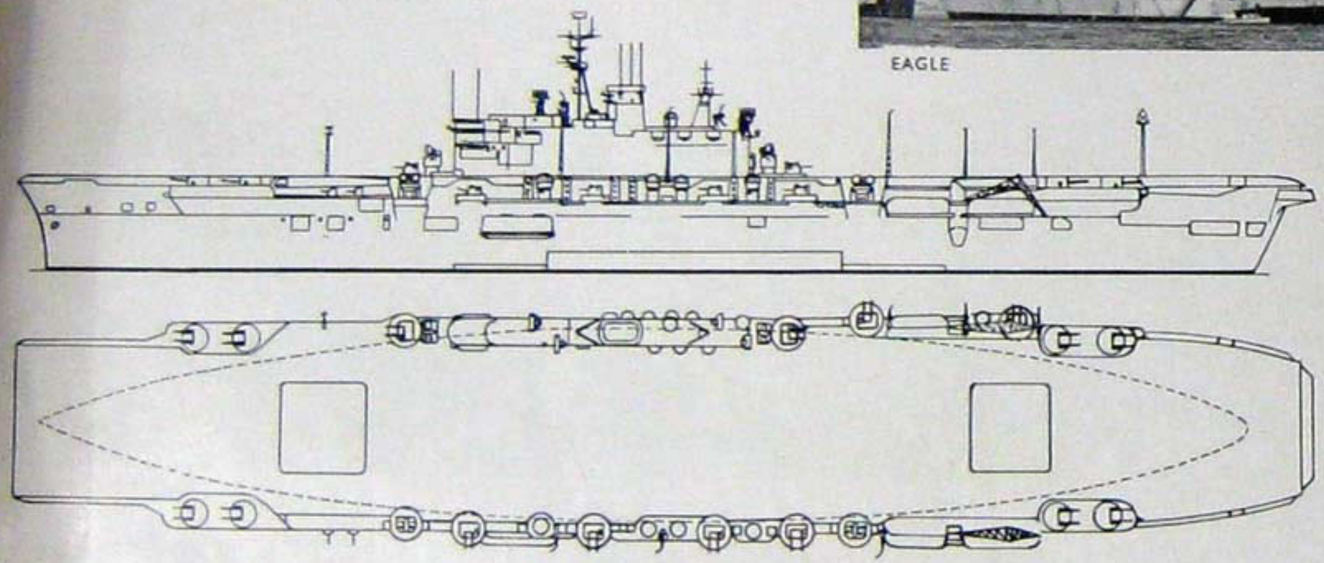
1952, Wright & Logan

2 " Ark Royal " Class

	ARK ROYAL (ex-*Irresistible*)	**EAGLE** (ex-*Audacious*)
Displacement :	36,800 tons (46,000 tons *full load*)	
Dimensions :	Length : 720 (*pp.*), 803½ (*o.a.*) feet. Beam : 112½ feet. Draught : 33½ (36 *max.*) feet.	
Guns	16—4·5 inch d.p., 57—40 mm. AA.	(*Ark Royal* 50—40 mm. AA.), 4—3 pdr. (saluting)
Aircraft :	80 to 110, according to size and type	
Machinery :	Parsons single reduction geared turbines. 4 shafts. S.H.P. : 152,000 = 31·5 kts. *deep load*	
Boilers :	8 Admiralty 3-drum type.	
Complement	1,425 (including ship's air complement, but excluding the complements of embarked air squadrons) ; 2,750 war) *max.* accommodation	

EAGLE

1952 *Wright & Logan.*



General Notes.—These two ships are the largest British aircraft carriers ever built. *Eagle* ordered 19 May 1942 and finally accepted into the Royal Navy 1 March 1952. *Ark Royal* is being completed. They are of 90 per cent. welded construction. Damage control arrangements are exceptionally complete. *Eagle* cost £15,795, 000.

Appearance Notes.—The shape of stern in these ships differs from that in earlier carriers. *Eagle* differs from *Ark Royal*.

Class Notes.—Two more large fleet aircraft carriers of this type, *Africa* and original *Eagle*, were cancelled. Three much larger fleet aircraft carriers, to have been named *Gibraltar*, *Malta* and *New Zealand*, were also cancelled.

Nomenclature Notes.—Following the sinking of the first fleet aircraft carrier *Ark Royal* in November 1941, the name was allocated to a considerably larger aircraft carrier projected which had previously been known as the *Irresistible*. After the first aircraft carrier *Eagle* was lost in August 1942 the name was given to an aircraft carrier of the above class ordered from Vickers-Armstrongs, Ltd., Tyne, but this vessel was cancelled at the end of the war, and the sister ship which had been began as the *Audacious* was renamed *Eagle* on January 21 1945.

Name	*Builders and Engineers*	*Laid down*	*Launched*	*Completed*
Ark Royal	Cammell Laird & Co., Ltd., Birkenhead	3 May 1943	3 May 1950	End 1954
Eagle	Harland & Wolff, Ltd., Belfast.	24 Oct. 1942	19 Mar. 1946	Oct. 1951

GREAT BRITAIN—Aircraft Carriers

"Hermes" Class.

HERMES (*ex-Elephant*)

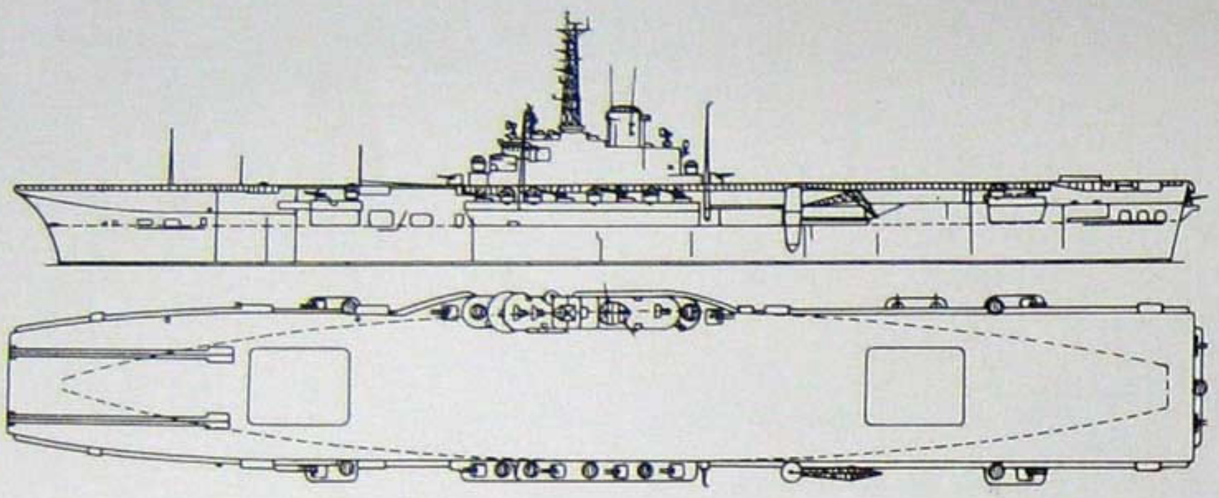
Displacement :	20,000 tons (unofficial estimate)
Dimensions :	Length : 650 (*pp.*), 741½ (*o.a.*) feet. Beam : 90 feet
Guns :	35—40 mm. Bofors AA.
Aircraft :	45
Machinery :	Parsons geared steam turbines. 2 shafts
Boilers :	Admiralty 3-drum type
Complement :	1,400

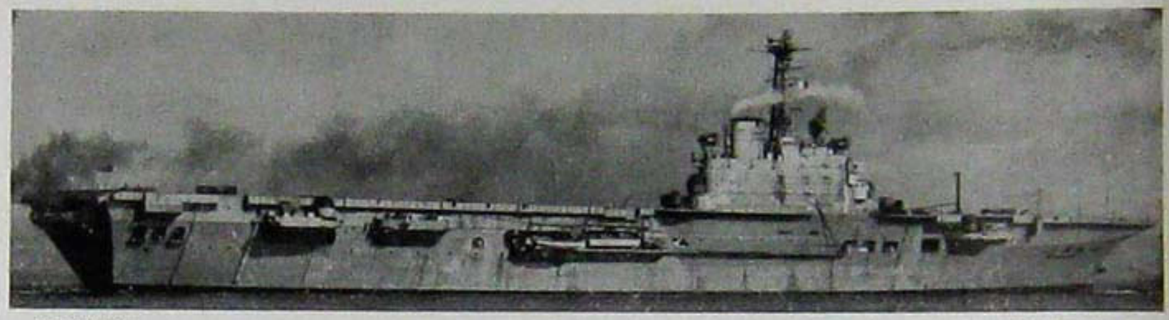
ALBION BULWARK CENTAUR

Displacement :	18,300 tons (as originally designed)
Dimensions :	Length : 650 (*pp.*), 737 (*o.a.*) feet Beam : 90 feet
Guns :	32—40 mm. AA., 4—3 pdr. (saluting)
Aircraft :	45
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 80,000 = 30 kts.
Boilers :	Admiralty 3-drum type
Complement :	1,400 (war)

CENTAUR.

1953, *Belfast News-Letter.*





CENTAUR.

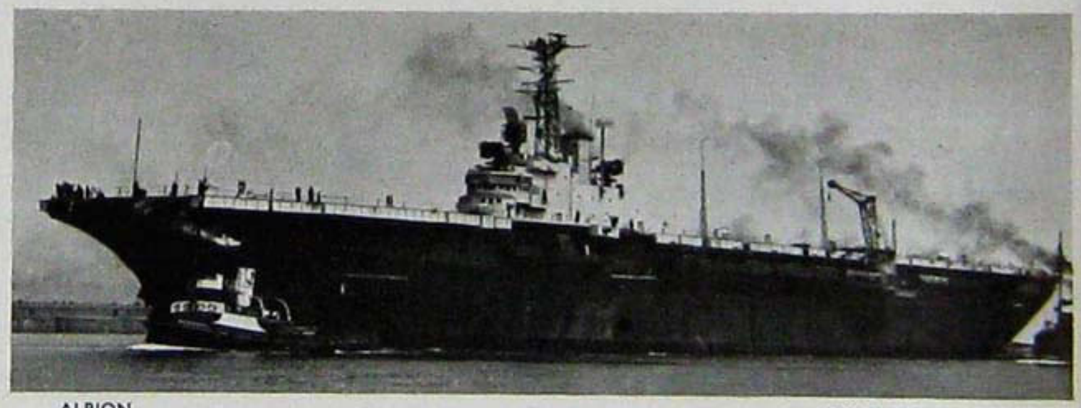
1953, *Fox Photos.*

General Notes.—Improvements incorporated during construction have increased the originally designed displacement figure. These ships are enlarged versions of the "Hercules" class with propelling machinery of nearly twice the power to give an extra five knots speed, correcting the inherent faults of the original light carrier type and bringing them more into line with modern fleet aircraft requirements. *Albion, Bulwark* and *Centaur* are being fitted out. *Hermes* is in course of construction. Machinery by The Wallsend Slipway & Engineering Co. Ltd. in *Albion*, by builders in other three.

Appearance Note.—The shape of the stern in these ships differs from that in earlier carriers.

Class Notes.—Of eight ships of this class originally ordered, *Arrogant, Monmouth* and *Polypheus* were cancelled, together with the original *Hermes*. It is reported that the *Hermes* when finally completed will be known as the "Hermes" (modernised) Class, as her design has been modified so much, and she will be virtually of a different type; in many ways she will be more advanced than the earlier ships of the class and will incorporate new equipment and improved arrangements; first British aircraft carrier to embody three post-war developments—the angled deck, the steam catapult, and the side lift. *Bulwark* will also have angled deck.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Albion	Swan, Hunter & Wigham-Richardson, Ltd.	23 Mar. 1944	6 May 1947	1953
Bulwark	Harland & Wolff, Ltd., Belfast	10 May 1945	22 June 1948	1954
Centaur	Harland & Wolff, Ltd., Belfast	30 May 1944	22 Apr. 1947	1953
Hermes	Vickers-Armstrongs, Ltd., (Barrow)	21 June 1944	16 Feb. 1953	——



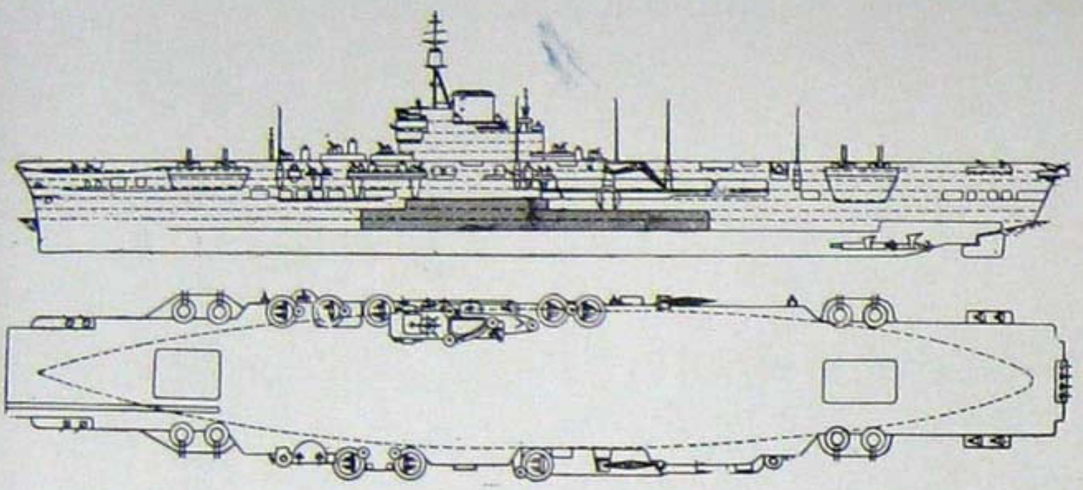
ALBION.

1953, *Shields Gazette Photo*

324R

2 "Implacable" Class.

	IMPLACABLE	INDEFATIGABLE
Displacement :	26,000 tons (32,850 tons *full load*)	
Dimensions :	Length : 766½ feet and 766½ feet (*o.a.*), respectively. Beam : 95½ feet. Draught : 29½ feet Width overall : 131½ feet. Flight deck : 765 feet ; Breadth : 111½ feet.	
Guns :	16—4·5 inch H.A./L.A., 12—40 mm. AA. (Bofors), 9—20 mm. AA. (Oerlikon), 52—2 pdr. pompoms, 4—3 pdr. (saluting).	
Aircraft :	72 capacity (none at present as training ships)	
Armour :	Similar to *Indomitable*.	
Machinery :	Parsons single-reduction geared turbines. 4 shafts. S.H.P. : 148,000 = 32·5 kts. (31 kts. sea speed)	
Boilers :	8 Admiralty 3-drum type	
Complement :	1,785 (peace), 2,200 (war).	



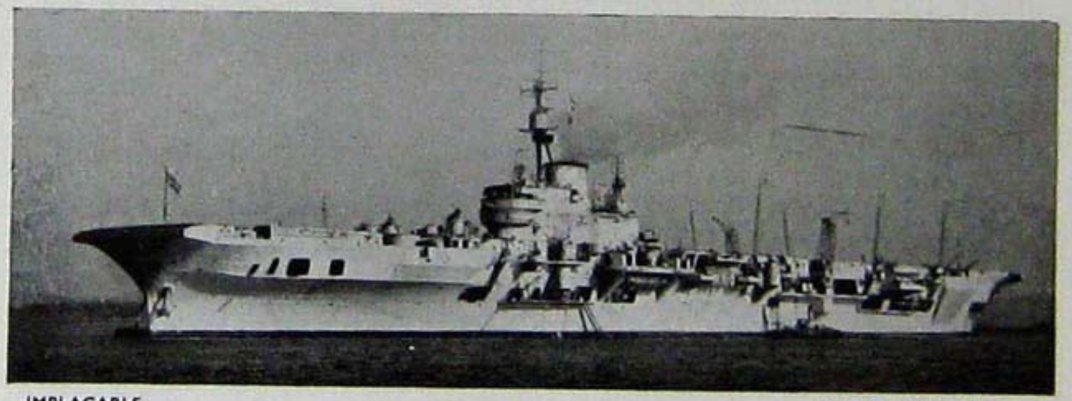
General Notes.—Ordered under 1938 and 1939 Navy Estimates, respectively. Designed by Sir Stanley Goodall. Two hangars above each other, after lift serving both. *Implacable* was refitted 1948-49, and was flagship of the Home Fleet May 1949-July 1950, after which she was refitted for service in the Training Squadron from Nov. 1951. *Indefatigable* was taken out of reserve in 1949, and completed a refit in Devonport Dockyard in 1950 for employment in the Training Squadron.

Appearance Notes.—Much heavier looking than earlier carriers. Different shaped bow and stern. To distinguish between them, observe that boats of *Indefatigable* are stowed one deck higher than in *Implacable*. *Indefatigable* has box-superstructure built on towards after end of flight deck whilst employed as a training ship and D.F. top on foremast is removed. *Implacable* has Admiral's bridge projecting forward of island superstructure and flag mast stepped just abaft the stump mainmast for Commander-in-Chief's flag. Flight deck does not curve downwards.

Name	*Builders and Engineers*	*Ordered*	*Laid down*	*Launched*	*Completed*
Implacable	Fairfield S.B. & Eng. Co., Ltd.	11 Oct. 1938	21 Feb. 1939	10 Dec. 1942	28 Aug. 1944
Indefatigable	John Brown & Co., Ltd., Clydebank	19 June 1939	3 Nov. 1939	8 Dec. 1942	3 May 1944

INDEFATIGABLE. *Added* 1953, *courtesy R. H. Tunstall, Esq.*

INDEFATIGABLE. 1950, *Abrahams.*



IMPLACABLE. 1949 *S. I. Herbert & Sons.*

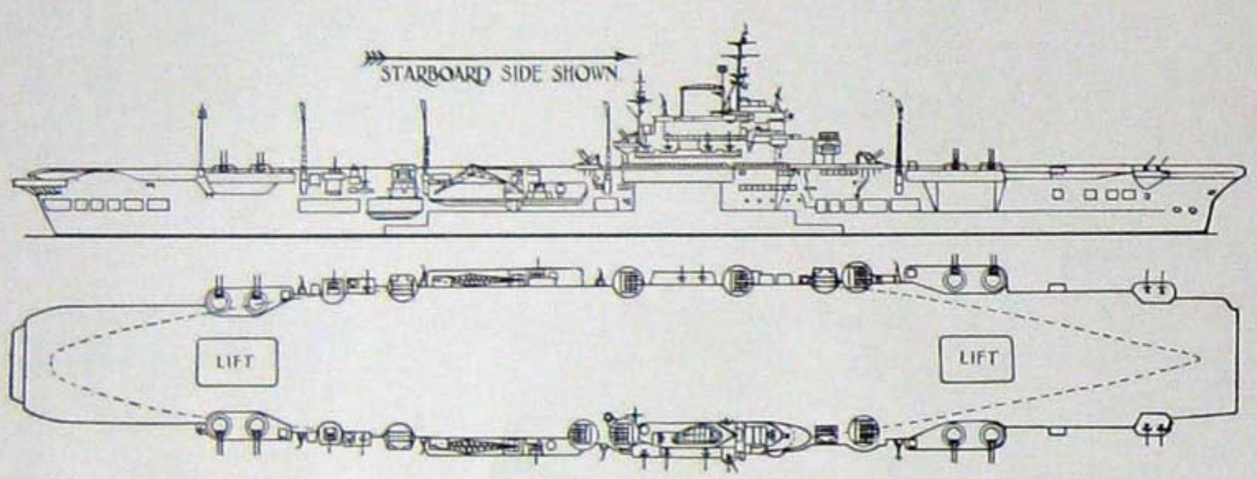
GREAT BRITAIN—Fleet Aircraft Carrier

INDOMITABLE

Builders : Vickers-Armstrongs, Ltd. Barrow
Engineers : Vickers-Armstrongs, Ltd., Barrow
Ordered : 6 July 1937
Laid down: 10 Nov. 1937
Launched : 26 Mar. 1940
Completed : 10 Oct. 1941

INDOMITABLE. 1951 *Wright & Logan.*

Displacement : 23,500 tons *standard* (29,730 tons *full load*)
Dimensions : Length : 754 feet (o.a.). Beam : 95½ feet. Draught : 22½ (mean), 29½ (max.) feet
Guns : 16—4·5 inch, 24—40 mm., 40—2 pdr. pompom, 4—3 pdr. saluting
Aircraft : 65
Armour : Similar to *Illustrious* class
Machinery : Parsons geared turbines. 3 shafts. S.H.P. : 111,000 = 30·5 kts.
Boilers : 6, of 3-drum type
Oil fuel : 4,600 tons
Complement: 1,600



INDOMITABLE. 1952 *A. & J. Pavia.*

General Notes.—Built under 1937 Estimates. Original design did not differ widely from *Illustrious* class, on following page, but there are two hangers, although forward lift does not serve lower hanger. Extensive refit and modernisation 1948-50, being dismantled forward and a new forward level flight deck section built on to replace the former curve down. Stern and bridges also modified. Fitted out as fleet flagship with accommodation for Commander-in-Chief and staff.

Appearance Notes.—After reconstruction differs considerably rom ormer appearance. Bow and stern rebuilt as light fleet carrier. Bridge remodelled.

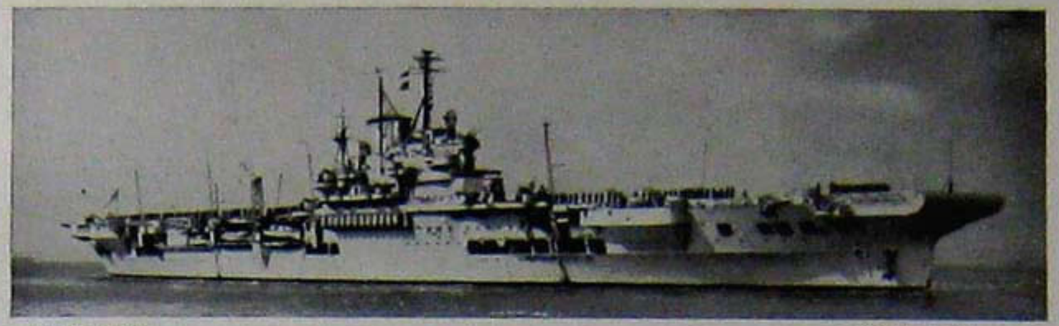
323

VICTORIOUS

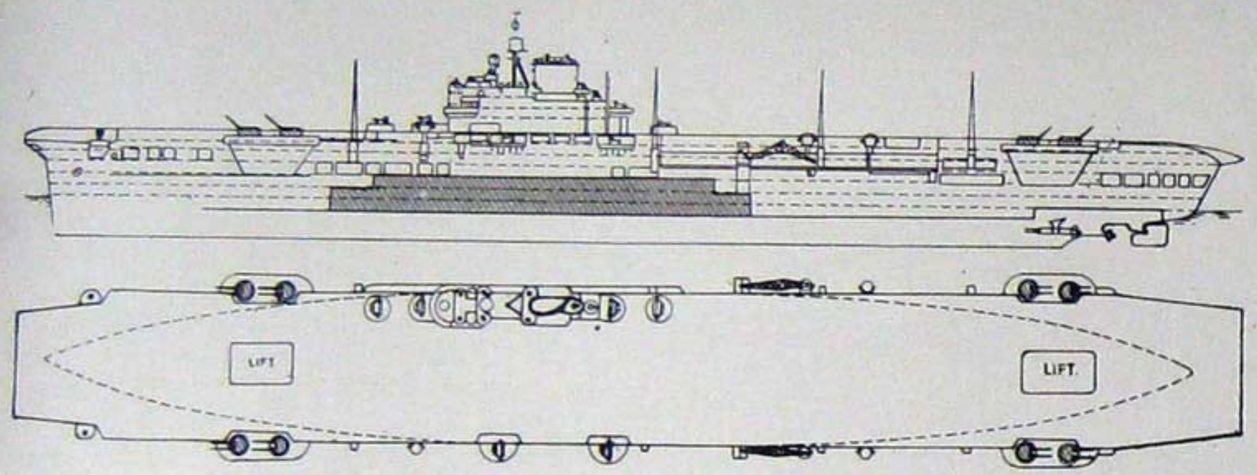
Displacement :	30,000 tons (unofficial estimate))
Dimensions :	Length: 766 feet. Beam: 102 feet. Draught: 30 feet (unofficial)
Guns :	16—4·5 inch, 50—40 mm. AA.
Aircraft :	72
Machinery :	Parsons geared turbines. 3 shafts. S.H.P. : 110,000 = 31 kts.
Boilers :	6 of 3-drum type
Complement :	1,785

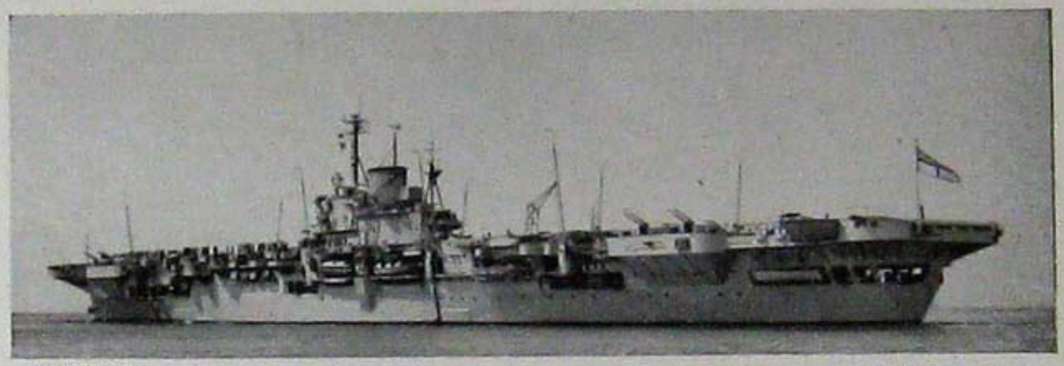
ILLUSTRIOUS

Displacement :	25,500 tons (31,790 tons *full load*)
Dimensions :	Length: 753 feet. Beam: 95 feet. Draught: 29 feet (*max.*)
Guns :	16—4·5 inch, 21—40 mm. AA., 12—20 mm. AA., 40—2 pdr., 3—3 pdr. saluting
Aircraft :	54
Armour :	See notes
Machinery :	Parsons geared turbines. 3 shafts. S.H.P. : 110,000 = 31 kts.
Boilers :	6, of 3-drum type
Complement :	1,600



ILLUSTRIOUS. 1952, Wright & Logan.





ILLUSTRIOUS. 1952 *Wright & Logan.*

General Notes.—Ordered under 1936 Navy Estimates. There is one long hangar at quarter deck level. Refitted and considerably modernised Jan.-Aug., 1948 and again refitted Nov., 1950-May, 1951. Of original sister ships *Victorious* entered Portsmouth Dockyard in March 1950 for major refit and modernisation for operational service. (Reconstruction commenced 1951). *Formidable* was scrapped in 1953 (towed away from Portsmouth to be broken up 7th May).

Armour Notes.—Protection includes armoured flight deck.

Appearance Notes.—Easily distinguished from later carriers by general appearance, but in particular by rather smaller island with small H.A. director on forward extension. Bow and stern were rebuilt similar to light fleet aircraft carrier type.

Name	*Builders*	*Engineers*	*Ordered*	*Laid down*	*Launched*	*Completed*
Illustrious	Vickers-Armstrongs, Barrow	Vickers-Armstrongs,	13 Jan 1937	27 Apr. 1937	5 Apr. 1939	21 May 1940
Victorious	Vickers-Armstrongs, Tyne	Wallsend Slipway	13 Jan. 1937	4 May 1937	14 Sept. 1939	15 May 1941

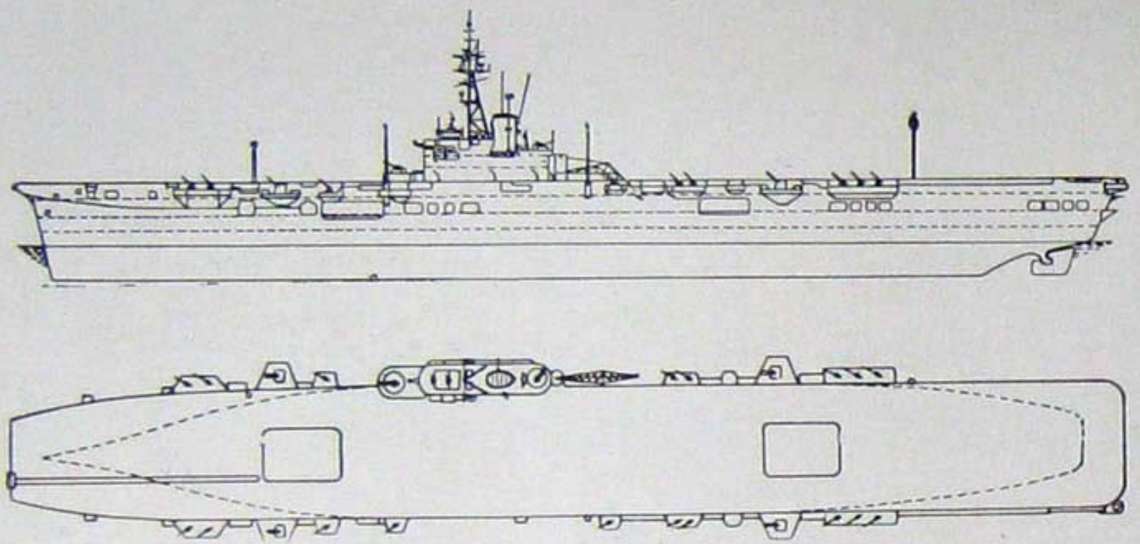
GREAT BRITAIN—Light Aircraft Carriers

2 " Hercules " Class.

HERCULES

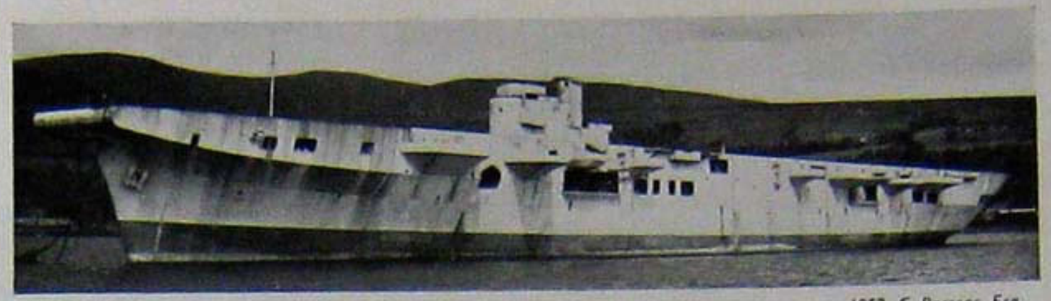
LEVIATHAN

Displacement :	14,000 tons *standard* (19,000 tons *full load*)
Dimensions :	Length : 630 (*pp.*), 695 (*o.a.*) feet (including safety nets). Beam : 80 feet. Draught : 24 feet Width of flight deck at island : 75 feet ; of flight deck : 80 feet ; with island ; 91 feet : with gun sponsons removed for passage through Panama Canal : 106 feet ; overall, including safety nets and gun sponsons : 112½ feet
Guns :	28—40 mm. AA. Bofors. (6 twin, 16 single). 4—3 pdr. (saluting)
Aircraft :	35
Machinery :	Parsons single-reduction geared turbines. 2 shafts. S.H.P. : 42,000 = 24·5 kts. designed
Boilers :	4 Admiralty 3-drum type (400 lb. working pressure, 700 degrees maximum superheat)
Complement :	1,343 (war)



General Notes.—Contracts of *Hercules* and *Leviathan* cancelled. Laid up at Faslane, and Portsmouth respectively. Air-conditioned and insulated for tropical service, ships' sides being sprayed with asbestos cement instead of being lagged. Separate messes and dining halls. Fully equipped laundry. Steam heating round weather W/T doors to prevent clips seizing up in Arctic. Pressed W/T doors of smaller pattern.

Constructional Notes.—*Leviathan* : Construction stopped in May, 1946, when structurally almost complete and 80 per cent. fitted out. Towed to Portsmouth Dockyard in July, 1946. No work done on her since. *Hercules* : Construction also stopped in May, 1946, when not so far advanced. Construction of a sister ship, *Powerful*, was also suspended in May 1946, but resumed in July 1952 for completion and transfer to the Royal Canadian Navy (see page 94).



HERCULES. 1952, *C. Parsons, Esq.*

LEVIATHAN. *Added 1949, Evening News, Portsmouth.*

Engineering Notes.—Turbines arranged *en echelon* so that starboard propeller shaft is longer than the port. Maximum speed : 25 knots.

Operational Notes.—Ten arrester wires. Catapult : single track, 20,000 lb. at 60 kts. Catapult accelerator gear port side forward.

Class Notes.—Of other ships of this class *Magnificent* is on loan to the Royal Canadian Navy, *Powerful* is being completed for the R.C.N. and renamed *Bonaventure*, *Majestic* is being completed for the Royal Australian Navy and renamed *Melbourne*, and *Terrible* was sold to R.A.N. and renamed *Sydney*.

Name	*Builders*	*Engineers*	*Laid down*	*Launched*	*Suspended*
Hercules	Vickers-Armstrongs, Ltd. (Tyne)	Parsons	14 Oct. 1943	22 Sep. 1945	May 1946
Leviathan	Swan, Hunter & Wigham Richardson.	Wallsend	18 Oct. 1943	7 June 1945	May 1946

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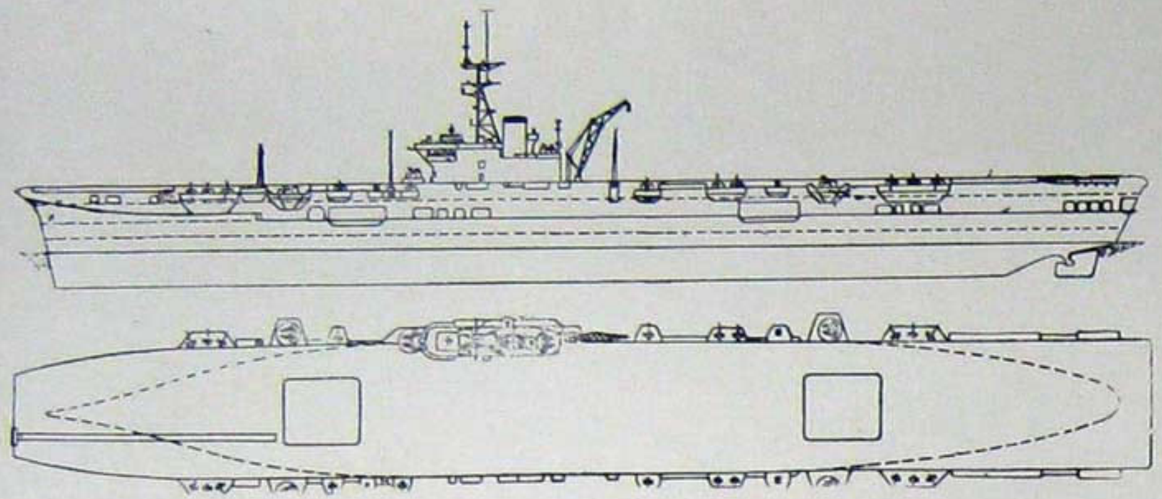
5 " Glory " Class.

GLORY **OCEAN** **THESEUS** **TRIUMPH** **WARRIOR**

Displacement :	*Glory, Ocean*, 13,190 tons *standard* (18,040 tons *full load*) *Theseus, Triumph, Warrior*, 13,350 tons (18,300 tons *full load*)
Dimensions :	Length: 630 (p.p.), 695 (*o.a.*) feet. Beam: 80 feet. Width: 112½ (*o.a.*) feet. Draught: 21½ (*mean*), 23½ (*max.*) feet. Flight deck: 690 feet long, 80 feet wide, 39 feet above water level.
Guns :	19—40 mm. AA. Bofors, 24—2 pdr. pompoms (*Triumph*,12—40 mm., 27—2 pdr.; *Ocean*, 28—40 mm.Bofors; *Glory*, 17—40 mm. Bofors AA., 24—2 pdr. pompoms.) 4—3 pdr. (saluting)
Aircraft :	35 (*Glory*: 21 Sea Fury, 12 Firefly, 1 Westland Dragonfly.)
Machinery	Parsons geared turbines. 2 shafts. S.H.P. : 42,000 = 25 kts. (24·25 kts. sea speed).
Boilers :	4 Admiralty 3-drum type (400 lb. working pressure, 700 degrees maximum superheat)
Complement :	1,076 (peace) (*Glory* 1,180—130 officers, 1,050 ratings) 1,300 (war)



General Notes.—All are insulated for tropical service and partially air-conditioned. *Warrior* was modernised 1952-53 with lattice foremast and extended and enlarged bridgework. Accomodation of *Triumph* was modified 1953 to fit her for employment as naval cadet's training ship.

Constructional Notes.—In some of these ships, flight deck is reported to have been strengthened to take aircraft of over 8 tons in weight. Sponsons can be dismantled to the extent of 3½ feet on either side if necessary to allow for passage through Panama Canal. Mercantile type hull. Built to Lloyd's specifications up to main deck with the original intention of converting to commercial service after the war. Damage control : No great measure of vertical sub-division on the sandwich system as it was reckoned that it is better for ships to settle evenly in the event of damage and flooding than to foster capsizing.

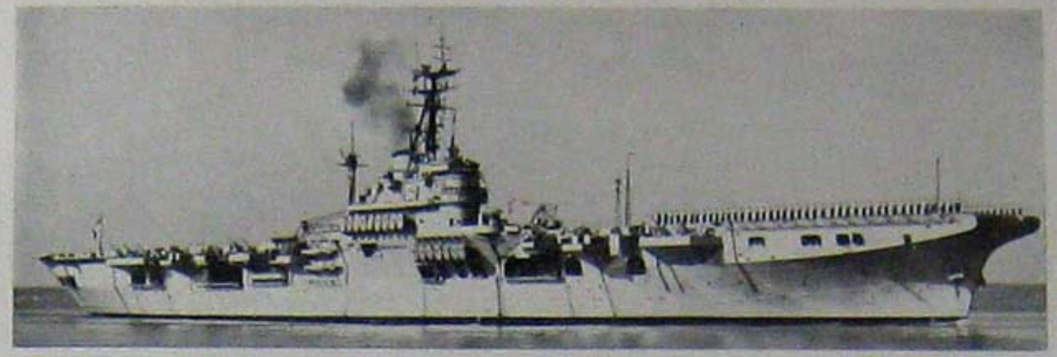
Engineering Notes.—Engines and boilers are arranged *en echelon*. In *Theseus*, one propellor is four-bladed and one three-bladed, in order to minimise vibration.

Experimental Notes.—*Warrior* was temporarily equipped with a flexible landing deck in 1948-49 for operating jet fighters with skids instead of an under-carriage with wheels, making for safer landings of fast aircraft in limited space. The flexible deck consisted of a rubber sheet supported by air bags. It extended from the bows to the barrier forward of the island and was superimposed on the normal flight deck. After part of the deck was built up to the same level by laying on a light steel structure 2½ feet high.

Appearance Notes.—Distinguished from fleet carriers by generally lighter appearance and thin funnel and distinctive shape of ship's side forward.

Class Notes.—*Colossus* was sold to France, *Venerable* was sold to Royal Netherlands Navy ; and two were completed as maintenance aircraft carriers *Perseus* and *Pioneer*. *Vengeance* was lent to the Royal Australian Navy early in 1953.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Glory	Harland & Wolff, Ltd., Belfast	27 Aug. 1942	27 Nov. 1943	22 Apr. 1945
Ocean	Alex. Stephen & Sons, Ltd. Govan	8 Nov. 1942	8 July 1944	30 June 1945
Theseus	Fairfield S.B. & Eng. Co., Ltd. Govan.	6 Jan. 1943	6 July 1944	9 Jan. 1946
Triumph	R. & W. Hawthorn, Leslie & Co., Ltd., Hebburn.	27 Jan. 1943	2 Oct. 1944	9 Apr. 1946
Warrior	Harland & Wolff, Ltd., Belfast.	12 Dec. 1942	20 May 1944	24 Jan. 1946



TRIUMPH

1953, *Wright & Logan.*

OCEAN.

1953, *A. & J. Pavia.*

GLORY.

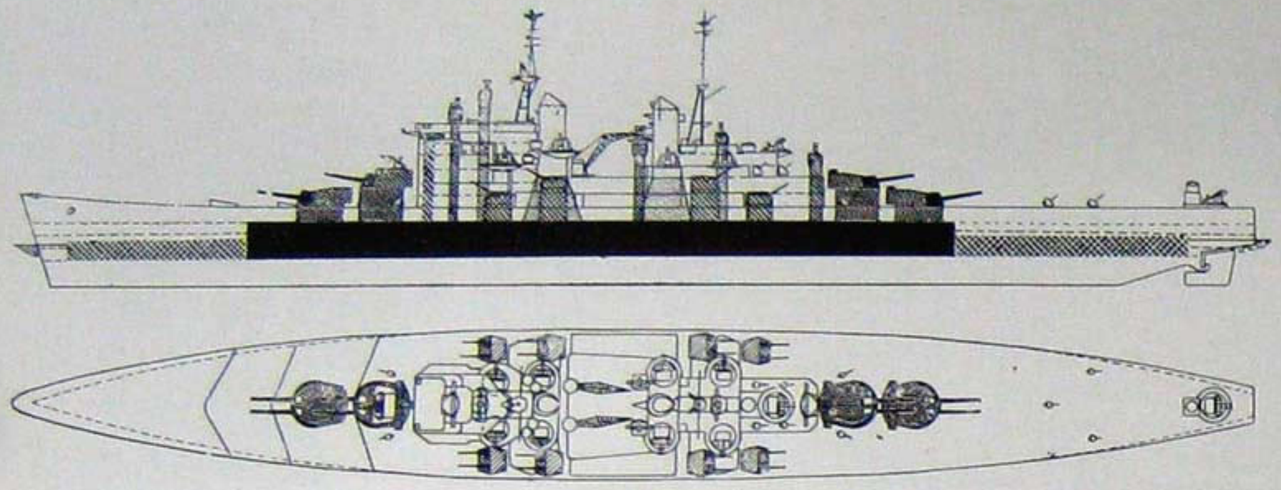
1952, *A. & J. Pavia.*

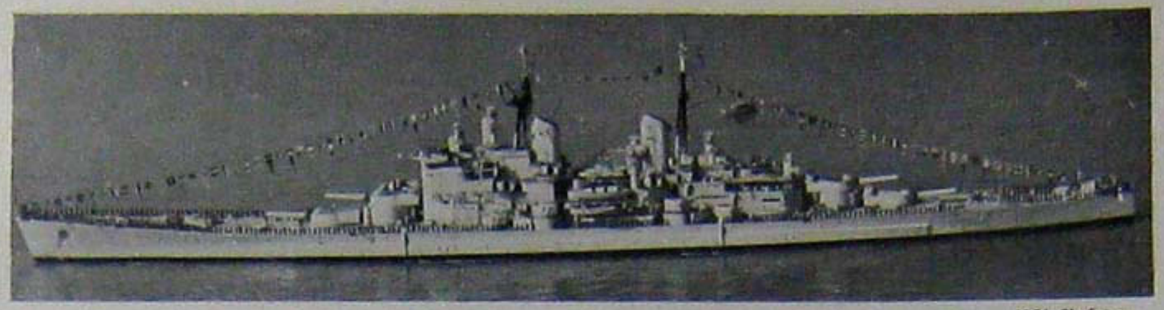
GREAT BRITAIN—Battleship

VANGUARD

Builders :	John Brown & Co. Ltd., Clydebank
Ordered :	14 Mar. 1941
Laid down :	2 Oct. 1941
Launched :	30 Nov. 1944
Completed :	25 April 1946

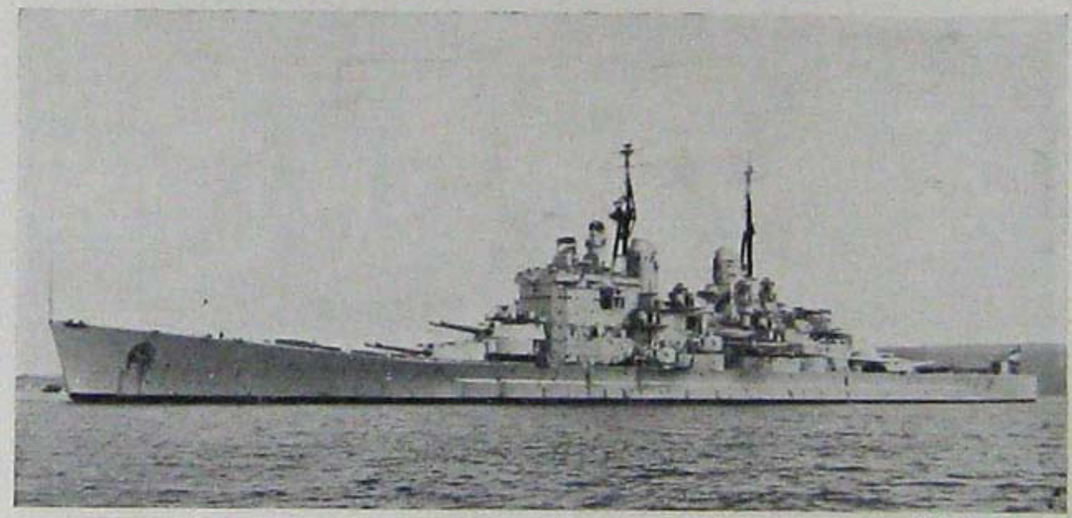
Displacement :	44,500 tons *standard* (*approx* 51,500 tons *full load*)
Dimensions :	Length : 814½ feet (*o.o.*). Beam : 108½ feet. Draught : 28 feet (*mean*), 36 feet (*max.*)
Guns :	8—15 inch, 42 cal., 16—5·25 inch, 70—40 mm. AA. (Bofors), 4—3 pdr. (saluting)
Armour :	See notes
Machinery :	Parsons single reduction geared turbines. 4 shafts. S.H.P. : 130,000 = 29·5 kts. sea speed
Boilers :	8 Admiralty 3-drum type
Complement :	1,600 (peace), 2,000 (war)





1951 *Skyfotos.*

1949, *Marius Bar.*



1949, *Abrahams.*

General Notes.—Largest warship ever built in Great Britain. Authorised under War Estimates, and designed by Sir Stanley Goodall. Accepted by Admiralty Aug. 9, 1946. Cost £9,000,000, exclusive of 15-inch guns and mountings. Royal Tour to South Africa Feb.-May, 1947. Refitted at Devonport, 1947-48. Operational in Mediteranean Jan.-July, 1949, followed by special trials. From Nov. 1949 was Training Ship at Portland, but temporarily wore flag of Commander-in-Chief, Home Fleet, for autumn cruise 1950 and spring cruise 1951. Flagship of Training Squadron from May 1951. Refit September 1951. Flagship of Home Fleet since spring 1952.

Gunnery Notes.—Latest system of radar control is installed. The 15-inch guns are those first mounted in H.M.S. *Courageous*, and *Glorious* in 1917, and later removed from those ships to be added to reserve of weapons of that calibre maintained for *Hood*, *Queen Elizabeth* and *Royal Sovereign* types. Anti-aircraft equipment finest ever installed in a ship of the Royal Navy. Twin Bofors on "B" turret.

Armour Notes.—Protection is equal to that of contemporary battleships of other navies.

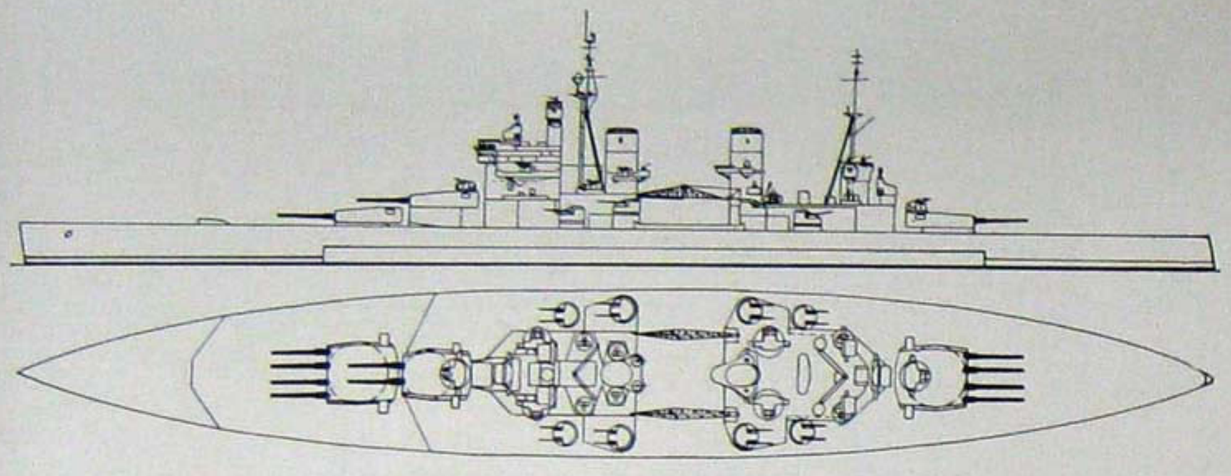
Engineering Notes.—Engine-rooms and boiler-rooms are arranged in four self-contained units. Oil burning system is on novel lines. Damage control arrangements claimed to be the most thorough ever installed in H.M. ships. Evaporators can produce 500 tons of fresh water per day. Capacity of dynamos : 17-18,000 amps. Special system of humidity control installed in engine-rooms and boiler-rooms, maintaining even temperature in Arctic or tropics.

Constructional Notes.—Water-tight sub-division of hull is so thorough that access to the various compartments can only be gained by vertical shafts. Modern ventilating system. Flared forecastle with three breakwaters. Damage control station is below armour. Admiral's quarters in after superstructure were converted into Royal apartments. Design incorporates five dining halls, cinema, laundry and chapel.

4 " King George V " Class.

ANSON (ex-*Jellicoe*) **DUKE OF YORK** (ex-*Anson*) **HOWE** (ex-*Beatty*) **KING GEORGE V**

Displacement :	35,000 tons *standard* (45,360 tons *full load Anson*, 44,790 tons *Duke of York*, 44,510 tons *Howe*, 44,460 tons *King George V*)
Dimensions :	Length: 739½ (*w.l.*), 745 (*o.o.*) feet. Beam: 103 feet. Draught: 27½ feet (*mean*), 36 feet (*max*).
Guns :	10—14 inch, 16—5·25 inch, 60 to 64—2 pdr. AA., 2 to 14—40 mm. AA. (Bofors), 8 to 14—20 mm. AA. (Oerlikon), 4—3 pdr. (saluting)
Armour :	See notes
Machinery :	Parsons single reduction geared turbines, 4 shafts. S.H.P. : 112,000 = 28 kts. (have actually developed 125,000 = 28·5 kts. in emergency)
Boilers :	8 Admiralty 3-drum type
Complement :	1,553 to 1,613 (peace), 2,000 (war)



Note to Plan.—Composite representation. Individual ships vary.

General Notes.—Ordered under 1936 (*King George V*) and 1937 Navy Estimates. Designed by Sir Arthur Johns, whose scope was restricted by limitation of displacement to 35,000 tons by Washington Naval Treaty of 1922. Name of Clydebank ship was changed Dec., 1938, and those of Swan Hunter and Fairfield ships in Feb., 1940. A fifth ship (*Prince of Wales*, built by Cammell, Laird & Co.) was lost in Dec., 1941. Superstructure, abaft bridge, designed as hanger, is now used as a cinema. All four ships now in reserve. *Anson*, *Duke of York* and *King George V* are laid up in the Gareloch in a state of preservation.

Gunnery Notes.—14-inch guns have an effective range greater than the 15-inch mounted in *Vanguard* and monitors, as measured by the perforation of any given thickness of armour. From photographs, elevation of 14-inch guns would appear to be at least 40 degrees. Inclusive cost of armament (including fire control installation costing £213,000) has been officially stated as £2,900,000.

Armour Notes.—Officially stated that design incorporates enhanced defence against air attack, including an improved distribution of deck and side armour, more elaborate sub-division, and an improved system of under-water protection. Unofficial reports give weight of armour as over 14,000 tons, and water-line thickness as 16 inches. Turret-weights are 1,500 tons for quadruple 14-inch ; 900 tons twin 14-inch ; 80 tons 5·25 inch.

Engineering Notes.—Improvements in boiler design reduced boiler weights by about 15 per cent. as compared with *Nelson* and *Rodney*, designed in 1922. On trials all 4 ships exceeded 28 kts. easily with about 112,000 S.H.P.

Appearance Notes.—Differences are mainly confined to bridge details. Number of small A.A. guns varies in each ship. *Duke of York* has extended platform with S.L., enlarged auxiliary steering position on after funnel. In *Howe* a windscreen is fitted, 2 single 40 mm. mounted on platform. *Anson* has large modern high-angle directors as in cruiser *Superb* and " Battle " class destroyers, small platform with S.L. *Anson* and *Duke of York* carry pompoms in large sponsons either side of bridge. *King George V* small platform with S.L.

Name	*Builders*	*Engineers*	*Laid down*	*Launched*	*Completed*
King George V	Vickers-Armstrongs, Ltd., (Tyne)	V.-A. (Barrow)	1 Jan. 1937	21 Feb. 1939	11 Dec. 1940
Duke of York	John Brown & Co., Ltd., Clydebank	Clydebank	5 May 1937	28 Feb. 1940	4 Nov. 1941
Anson	Swan, Hunter & Wigham Richardson	Wallsend Co.	20 July 1937	24 Feb. 1940	22 June 1942
Howe	Fairfield S.B. & Eng. Co., Ltd.	Fairfield	1 June 1937	9 Apr. 1940	29 Aug. 1942

KING GEORGE V. *Added 1951 Wright & Logan.*

ANSON. *Added 1949, W. Ralston, Ltd., Glasgow.*

HOWE. *Added 1947, Wright & Logan.*

GREAT BRITAIN—Ferry Carriers

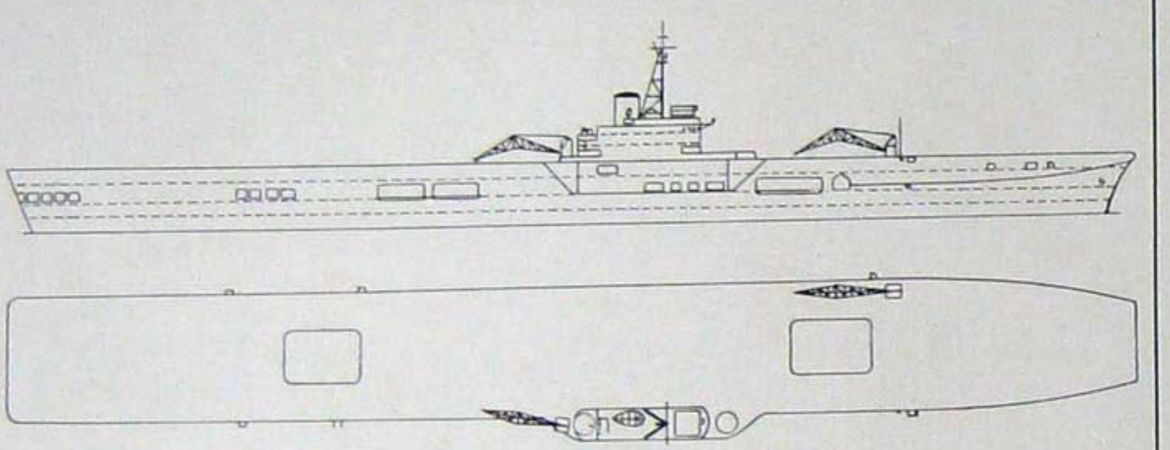
2 "Perseus" Class.

PERSEUS. (after alterations) 1953. *J. W. Kennedy.*

PERSEUS (ex-*Edgar*)

PIONEER (ex-*Mars*)

Displacement :	12,265 tons *standard* (16,475 tons *full load*)
Dimensions :	Length: 694½ feet. Beam: 80½ feet. Draught: 23 feet
Guns :	16—2 pdr. pompoms, 16—40 mm. AA.
Armour :	None over flight deck
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 42,000 = 25 kts.
Boilers :	4 Admiralty 3-drum type



Note to Plan.—Represents *Perseus* in which the superstructure on the flight deck aft and abreast the island has now been removed (see photo).

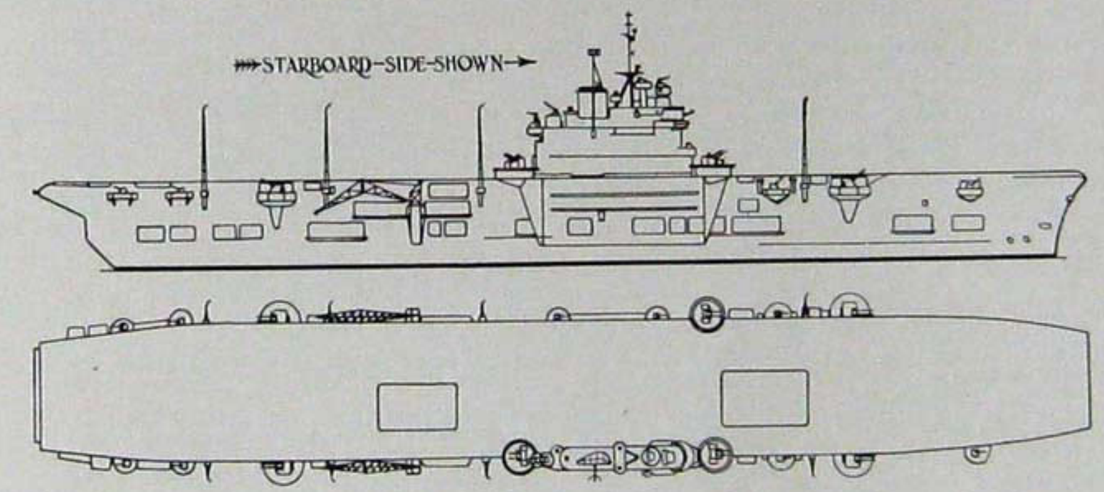
General Notes.—When laid down *Perseus* and *Pioneer* were intended to be additional light carriers of the "Glory" class, but were completed as Aircraft Maintenance Ships, and were apparently modified versions of *Unicorn*. *Perseus* refitted 1950-1951, and equipped with an aircraft catapult of new design, driven by steam from the ship's own boilers, capable of launching heavier and larger types of naval aircraft. Both ships officially redesignated Ferry Carriers June 1953.

Name	*Builders*	*Engineers*	*Laid down*	*Launched*	*Completed*
Perseus	Vickers-Armstrongs, Tyne	Vickers-Armstrongs, Barrow	1 June 1942	26 Mar. 1944	19 Oct. 1945
Pioneer	Vickers-Armstrongs, Tyne	Vickers-Armstrongs, Barrow	2 Dec. 1942	20 May 1944	8 Feb. 1945

UNICORN. 1951, *A. & J. Pavia.*

UNICORN

Builders :	Harland and Wolff, Ltd., Belfast
Laid down :	29 June 1939
Launched :	20 Nov. 1941
Completed :	12 Mar. 1943
Displacement :	14,750 tons (20,300 tons *full load*)
Dimensions :	640 (*o.a.*) feet. Beam: 90 feet. Draught: 19 feet (*mean*), 25 feet (*max.*)
Guns :	8—4 inch, 16—2 pdr. pompoms, 16—20 mm. AA.
Aircraft :	35 (operational, wartime)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 24 kts.
Boilers :	4 Admiralty 3-drum type



Notes.—Built under 1938 Estimates. Is equipped for duty as Aircraft Supply and Repair Ship, having been designed to fulfil for aircraft squadrons much the same duties as undertaken by *Adamant* for submarine squadrons. Served as an operational aircraft carrier during the Second World War. Taken out of reserve 1947 and refitted for further service as a Maintenance and Replenishment Carrier. Sailed for Far East, Sep., 1949, carrying aircraft and spares. Officially redesignated as a Ferry Carrier in June 1953.

Ferry Carrier.

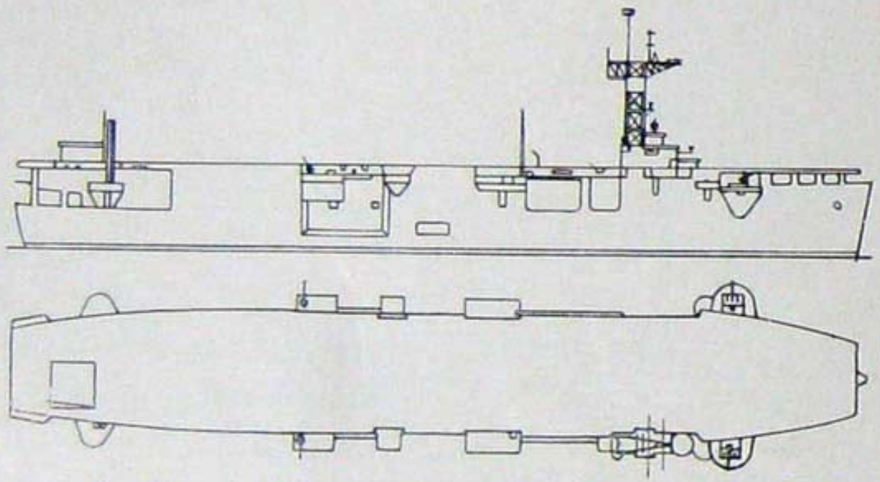
(Aircraft Transport)

CAMPANIA. 1952, *Wright & Logan.*

CAMPANIA

Laid down :	12 Aug. 1941
Launched :	17 June 1943
Completed :	7 Mar. 1944

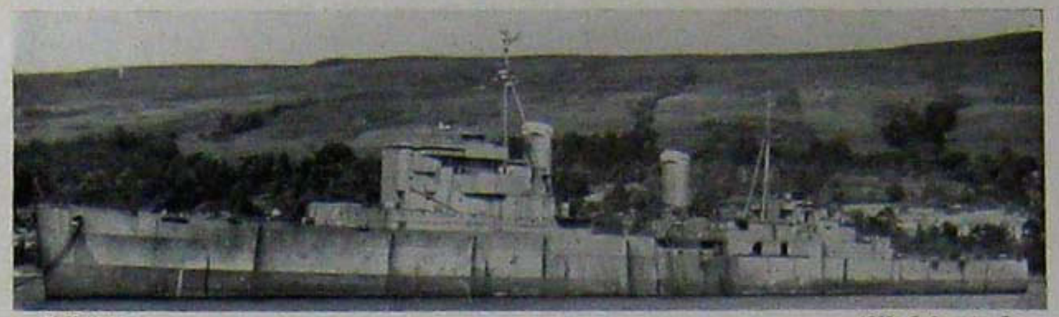
Displacement :	12,450 tons *standard* (15,970 tons *full load*)
Dimensions :	Length : 540 feet. Beam : 70 feet. Draught : 19 (*mean*), 23½ (*max.*) feet
Guns :	2—4 inch, 8—40 mm. AA., 16—20 mm. AA.
Aircraft :	20 (as escort aircraft carrier). Up to 90 as ferry transport.
Machinery :	Diesel. 2 shafts. B.H.P. : 11,000 = 17 kts.
Complement	700 (as escort carrier)



Notes.—Was converted from the hull of a 12,000-ton refrigerated cargo vessel laid down for the Shaw Savill Line, and completed as an escort aircraft carrier. Refitted as a ferry carrier after the war. Loaned by the Admiralty to Festival of Britain, 1951, as a travelling exhibition ship. After serving her term as such, for which she was converted by Cammelll, Laird & Co., Ltd., Birkenhead, she was reduced to reserve, refitted, and commissioned for further service in the Special Squadron as a transport for scientific staff and trials equipment for the atomic weapon test in the Monte Bello Islands off north-west Australia. She returned to the United Kingdom in Dec. 1952 since when she has been laid up in reserve.

Cruisers.

3 " Tiger " Class.



DEFENCE. 1952, *C. Parsons, Esq.*

DEFENCE. 1949, *Peter W. McMillan, Esq.*

BLAKE (ex-*Tiger*, ex-*Blake*) — DEFENCE — TIGER (ex-*Bellerophon*)

Displacement :	8,000 tons (as originally designed)
Dimensions :	Length : 538 (*pp.*), 555½ (*o.a.*) feet. Beam : 64 feet. Draught : 21 feet (*max.*)
Guns :	4—6 inch, 6—3 inch, 6—40 mm. AA.
Armour :	See notes
Machinery :	Parsons geared turbines. 4 Shafts. S.H.P. : 72,500 = 31·5 kts.
Boilers :	4 Admiralty 3-drum type
Complement :	1,000 (as originally designed)

General Notes.— It is expected that when completed these ships will exceed their original designed displacement. Work on them was stopped in July, 1946. Officially stated that construction work on all three is suspended, but that work in relation to the preparation of equipment is being progressed.

Gunnery Notes.—As originally designed ordnance was same as *Superb*, but it is officially stated that guns under review. Future armament and equipment of these ships is dependent on research now in progress.

Torpedo Notes.—Were designed to have 21-inch torpedo tubes in two mountings, similar to *Superb*.

Armour Notes.—Protection similar to *Superb* as originally designed.

Class Notes.—*Hawke*, of this class, laid down at H.M. Dockyard, Portsmouth in Aug., 1944, was cancelled in 1946, as was *Bellerophon* (ex-*Tiger*), a cruiser of enlarged design, ordered from Vickers-Armstrongs.

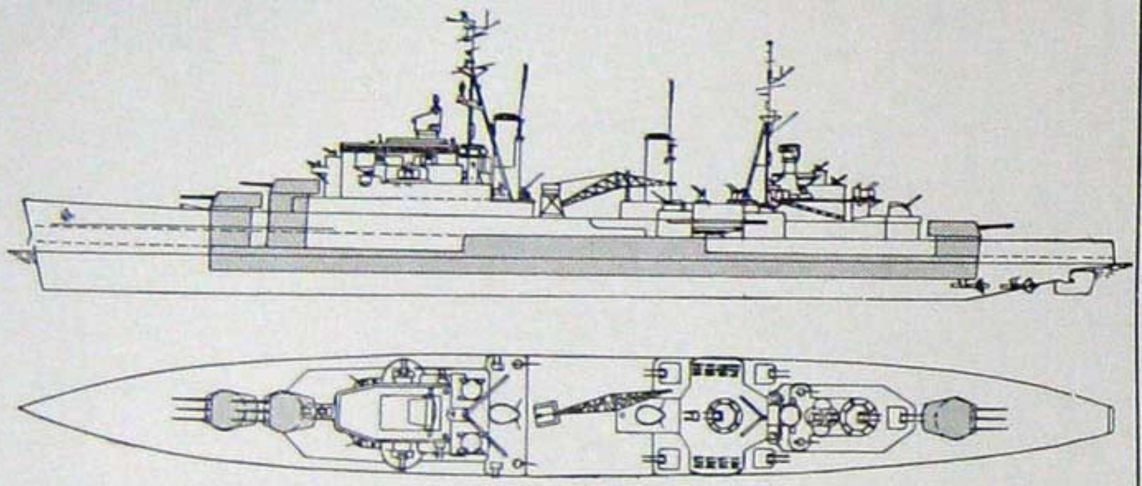
Name	*Builders and Engineers*	*Laid down*	*Launched*	*Completion*
Blake	Fairfield S.B. & Eng. Co., Ltd., Govan	17 Aug. 1942	20 Dec. 1945	Building
Defence	Scotts S.B. & Eng. Co., Ltd., Greenock	24 June 1942	2 Sep. 1944	Building
Tiger	John Brown & Co., Ltd., Clydebank	1 Oct. 1941	25 Oct. 1945	Building

SUPERB. 1952, *A. & J. Pavia.*

SUPERB

Builders :	Swan, Hunter & Wigham Richardson, Ltd., Wallsend
Laid down :	23 June 1942
Launched :	31 Aug. 1943
Completed :	16 Nov. 1945

Displacement :	8,000 tons *standard* (11,560 tons *full load*)
Dimensions :	Length : 538 (*pp.*), 555½ (*o.a.*) feet. Beam : 64 feet. Draught : 21½ (*max.*) feet
Guns :	9—6 inch, 10—4 inch AA., 18—2 pdr. pompoms, 4—40 mm. AA.
Torpedo tubes :	6—21 inch
Armour :	2" turrets and deck, 3"—4" side
Machinery :	Parsons geared turbines. 4 shafts. S.H.P. : 72,500 = 31·5 kts. (29·25 kts. sea speed)
Boilers :	4 Admiralty 3-drum type
Complement :	867 (peace) : 1,000 (war



General Notes.—Ordered under War Estimates. Fitted as squadron flagship.

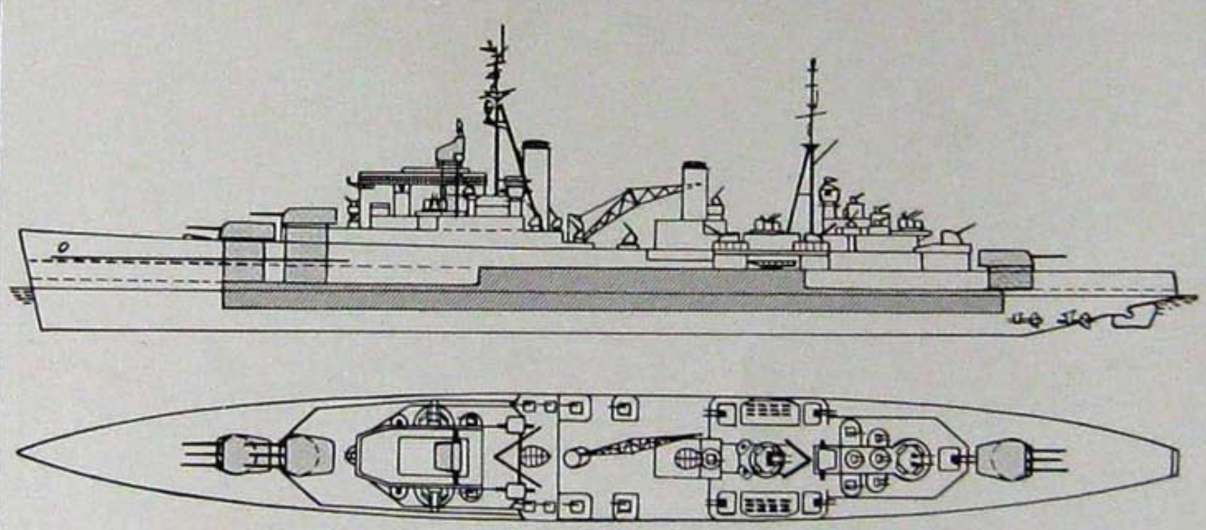
Appearance Notes.—Similar to *Swiftsure*, but has larger high angle directors and two barrage directors before bridge instead of one. Later type directors distinguish her from *Swiftsure*, and no hangar, additional 4-inch H.A. mounting in "X" position, and thinner funnels, from "Mauritius" class.

SWIFTSURE. 1951, *Wright & Logan.*

SWIFTSURE

Builders :	Vickers-Armstrongs, Ltd., Tyne
Engineers :	Vickers-Armstrongs, Ltd., Barrow
Laid down :	22 Sept. 1941
Launched :	4 Feb. 1943
Completed :	22 June 1944

Displacement :	8,000 tons *standard* (11,240 tons *full load*)
Dimensions :	Length : 555½ feet (*o.a.*). Beam : 63 feet. Draught : 16½ (*mean*), 21½ (*max.*) feet
Guns :	9—6 inch, 10—4 inch AA., 17—40 mm. AA. (four twin, nine single)
Torpedo tubes :	6—21 inch
Armour :	2" turrets, 4" side, 4" C.T.
Machinery :	Parsons single reduction geared turbines. 4 shafts. S.H.P. : 72,500 = 31·5 kts.
Boilers :	4 Admiralty 3-drum type
Complement	855 (peace), 960 (war)



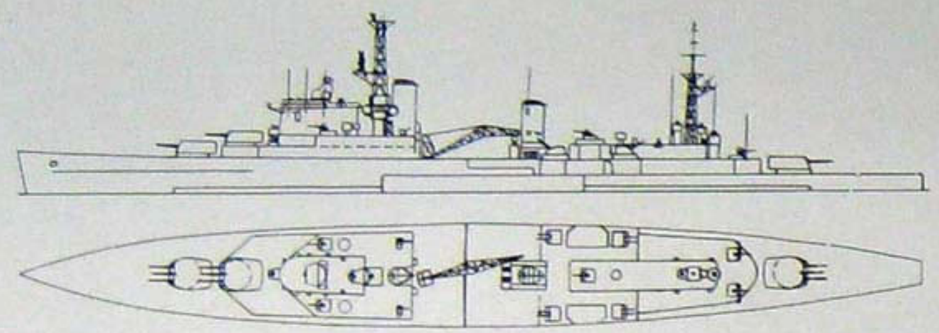
General Notes.—This ship is a slightly modified version of the Quebec (ex-*Uganda*). Another of same type, *Ontario* (ex-*Minotaur*) will be found under Royal Canadian Navy.

Appearance Notes.—No provision ever made for aircraft, the absence of the hangar structure and the additional pair of 4-inchAA., in "X" position distinguishing her from "Mauritius" class.

2 " Ceylon " Class.

CEYLON **NEWFOUNDLAND**

Displacement :	8,000 tons, designed ; *Ceylon* is 8,781 tons *standard* (11,130 tons *full load*)
Dimensions :	Length : 549 (*w.l.*), 555½ (*o.a.*) feet. Beam : 62 feet. Draught : 16½ (*mean*), 20½ (*max.*) feet
Guns :	9—6 inch, 8—4 inch AA., 12—40 mm., 12—20 mm. AA. (*Ceylon* 2—40 mm., 16—20 mm.)
Tubes :	6—21 inch
Armour :	2" turrets, 4" side, 4" C.T.
Machinery :	Parsons single-reduction geared turbines. 4 shafts. S.H.P. : 72,500 = 31·5 kts.
Boilers :	4 Admiralty 3-drum type
Complement :	766 *Ceylon*, 808 *Newfoundland* (peace) ; 950 (war)



Note to Plan.—Represents *Newfoundland* only. *Ceylon* has light tripod masts.

General Notes.—Built under 1938 and 1939 Navy Estimates, respectively, and ordered in 1939. These ships are a modification of original *Fiji* design, one 6-inch turret having been suppressed, and the number of light AA. guns augmented. *Newfoundland* was reconstructed at H.M. Dockyard, Devonport with two lattice masts, new bridge and improved AA. armament. *Uganda* of this class was transferred to the Royal Canadian Navy in 1944 and renamed *Quebec* in 1951.

Appearance Notes.—As compared with " Mauritius " class, *Ceylon* has oval instead of rounded bridge, high-angle director abreast foremast instead of further forward abreast D.C.T.

Name	*Builders*	*Engineers*	*Laid down*	*Launched*	*Completed*
Ceylon	Alex. Stephen & Sons, Ltd., Govan	Stephen	27 Apr. 1939	30 July 1942	13 July 1943
Newfoundland	Swan, Hunter and Wigham Richardson	Wallsend	9 Nov. 1939	19 Dec. 1941	31 Dec. 1942

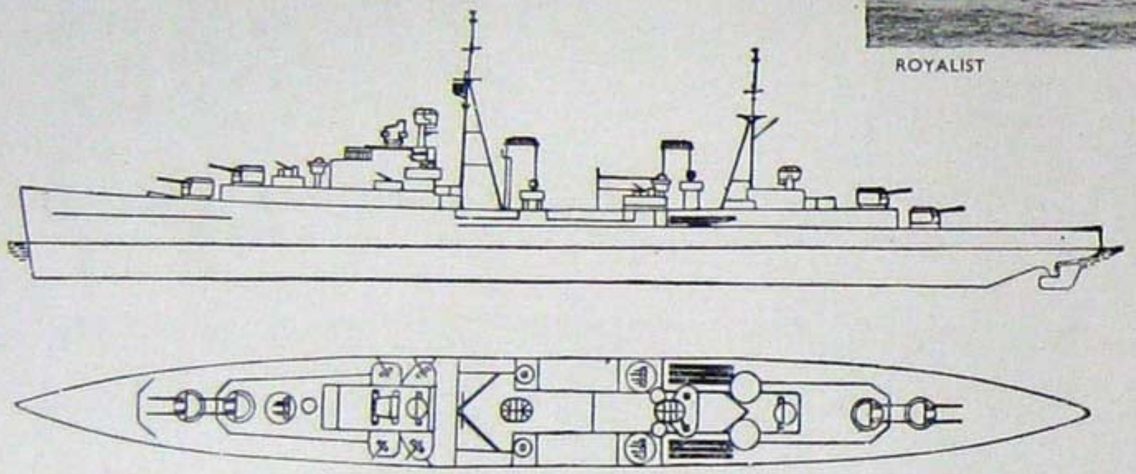
NEWFOUNDLAND. 1953, *A. & J. Pavia.*

CEYLON. 1951 *A. & J. Pavia*

CEYLON. 1950, *Wright & Logan.*

2 Modified " Dido " Class.

	DIADEM	ROYALIST
Displacement :	5,900 tons (7,560 and 7,360 tons *full load* respectively)	
Dimensions :	Length : 512 feet (*o.a.*). Beam : 50½ feet. Draught : 15 (*mean* 18½ (*max.*) feet	
Guns :	8—5·25 inch, 12—2 pdr. AA., 12—40 mm. AA., 12—20 mm. AA.	
Tubes :	6—21 inch (tripled) (none at present in *Royalist*)	
Armour :	2"—1" turrets, $\frac{3}{4}$" side	
Machinery :	Parsons single-reduction geared turbines. 4 shafts. S.H.P. 62,000 = 32 kts.	
Boilers :	4 Admiralty 3-drum type	
Complement	588 (peace)	



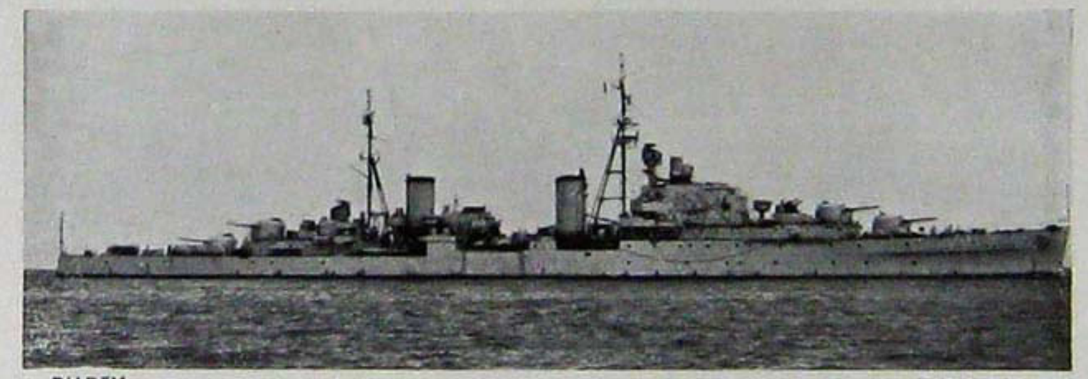
General Notes.—Built under War Estimates. *Bellona* and *Black Prince* of this class are on loan to Royal New Zealand Navy. War loss : *Spartan.*

Appearance Notes.—These 2 ships are easily distinguishable from earlier units of " Dido " class by absence of rake to masts and funnels.

Name	*Builders and Engineers*	*Laid down*	*Launched*	*Completed*
Diadem	R. & W. Hawthorn, Leslie & Co., Ltd., Hebburn	15 Nov. 1939	26 Aug. 1942	6 Jan. 1944
Royalist	Scotts S. B. & Eng. Co., Ltd., Greenock	21 Mar. 1940	30 May 1942	10 Sep. 1943

ROYALIST

1946, Wright & Logan.



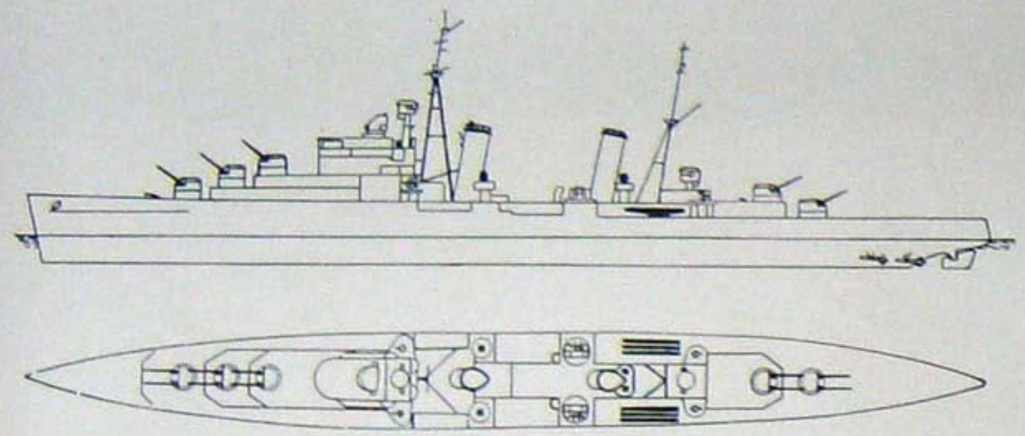
DIADEM

1949, P. A. Vicary.

6 " Dido " Class.

ARGONAUT **DIDO** **PHOEBE**
CLEOPATRA **EURYALUS** **SIRIUS**

Displacement :	5,770 tons *standard* ; *Cleopatra* 5,772 tons and *Sirius* 5,807 tons (7,120 to 7,515 tons *full load*)
Dimensions :	Length : 506 (pp.), 512 (o.a.) feet. Beam : 50½ feet (*Argonaut* 50 feet). Draught : 14 (mean), 18 (max.), feet
Guns :	8—5·25 inch (*Dido*, *Sirius*, 10—5·25 inch), 2 to 12—40 mm., 4 to 13—20 mm. AA., 8 to 12—2 pdr.
Tubes :	6—21 inch (tripled) ; none in *Phoebe*
Armour :	2"-1" turrets, 2" side
Machinery :	Parsons single-reduction geared turbines. 4 shafts. S.H.P. : 64,000 = 32·25 kts.
Boilers :	4 Admiralty 3-drum type, working pressure 400 lb.
Complement :	550-620 (peace)



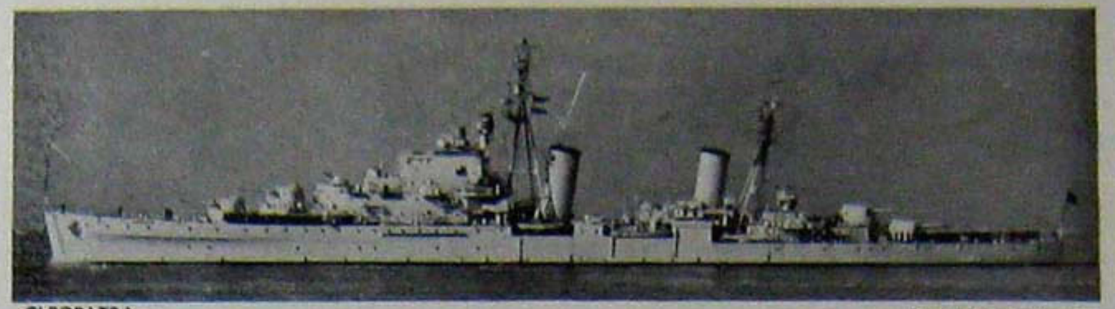
Note to Plan.—Only *Dido* and *Sirius* have 5 turrets as shown here.

General Notes.—As designed, displacement was 5,450 tons but actual figures exceeded this considerably. *Argonaut*, *Dido* and *Sirius* are in reserve. In 1943 *Argonaut* was so extensively damaged by torpedoes that she had to be one-third rebuilt at Philadelphia. *Scylla* was discarded in 1948 on account of heavy underwater damage sustained during war, then was used for ship target trials, and finally broken up in 1950. War losses : *Bonaventure*, *Charybdis*, *Hermione*, *Naiad*.

Appearance Notes.—Distinguished from modified " Dido " class by higher bridge and raking funnels. *Dido* and *Sirius* retain third turret forward in " Q " position.

Gunnery Notes.—*Cleopatra* has new outfit of Bofors with British mountings instead of United States mountings (10—40 mm.) : single each side in bridge sponsons and abreast forefunnel, twin in " Q " position and athwart after funnel.

Est.	*Name*	*Builders*	*Machinery*	*Ordered*	*Laid down*	*Launched*	*Completed*
1936	*Dido*	Cammell Laird	Cammell Laird	21 Mar. 1937	20 Oct. 1937	18 July 1939	30 Sep. 1940
1936	*Euryalus*	Chatham	Hawthorn	21 Mar. 1937	20 Oct. 1937	6 June 1939	30 June 1941
1936	*Phoebe*	Fairfield	Fairfield	21 Mar. 1937	2 Sep. 1937	25 Mar. 1939	30 Sep. 1940
1936	*Sirius*	Portsmouth	Scotts	21 Mar. 1937	6 Apr. 1938	18 Sep. 1940	6 May 1942
1938	*Cleopatra*	Hawthorn	Hawthorn	18 Aug. 1938	5 Jan. 1939	27 Mar. 1940	20 Nov. 1941
1939	*Argonaut*	Cammell Laird	Cammell Laird	1939	21 Nov. 1939	6 Sep. 1941	8 Aug. 1942



CLEOPATRA

1951, *Wright & Logan.*

PHOEBE.

1953 *Pembroke Studios.*

SIRIUS. (DIDO similar.) Five twin turrets.

1946, Wright & Logan

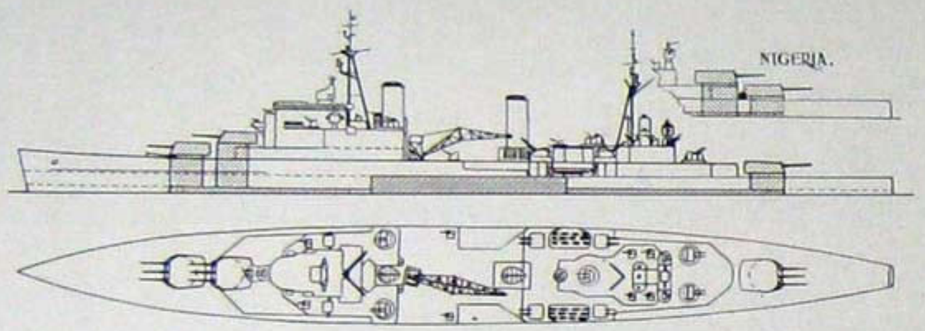
GREAT BRITAIN—Cruisers

6 " Mauritius " Class.

BERMUDA **KENYA**
GAMBIA **MAURITIUS**
JAMAICA **NIGERIA**

Displacement : 8,000 tons *standard* (11,000 to 11,270 tons *full load*)
Dimensions : Length : 549 (*w.l.*), 555½ (*o.a.*) feet. Beam : 62 feet. Draught : 16½ (*mean*) 21 (*max.*) feet
Guns : 9—6 inch (*Nigeria*, 12—6 inch), 8—4 inch AA., 2 to 16—40 mm. AA., 4 to 12—20 mm. AA., 8 to 24—2 pdr.,
Tubes : 6—21 inch
Armour : 2" turrets, 4½"-3" side, 4" C.T.
Machinery : Parsons geared turbines. 4 shafts. S.H.P. : 72,500 = 31·5 kts. (sea speed 29·75 kts. except *Kenya*, 30·25 kts).
Boilers : 4 Admiralty 3-drum type
Complement : 730 (peace) ; 980 (war)

MAURITIUS.



KENYA. 1953, *A. & J. Pavia.*

JAMAICA 1952, *Wright & Logan*

General Notes.—These ships are a logical development from *Glasgow* and *Belfast* designs, and are reported to have proved highly successful in service. Two others, *Fiji* and *Trinidad*, were lost in action.

Gunnery Notes.—Different type of light anti-aircraft guns in *Gambia*.

Appearance Notes.—*Jamaica* has a stump mast for supporting aircraft homing beacon, installed before after funnel on starboard side (see photo). *Nigeria* is the only one of the class which retains a fourth triple 6-inch turret in " X " position (see inset sectional elevation drawing above).

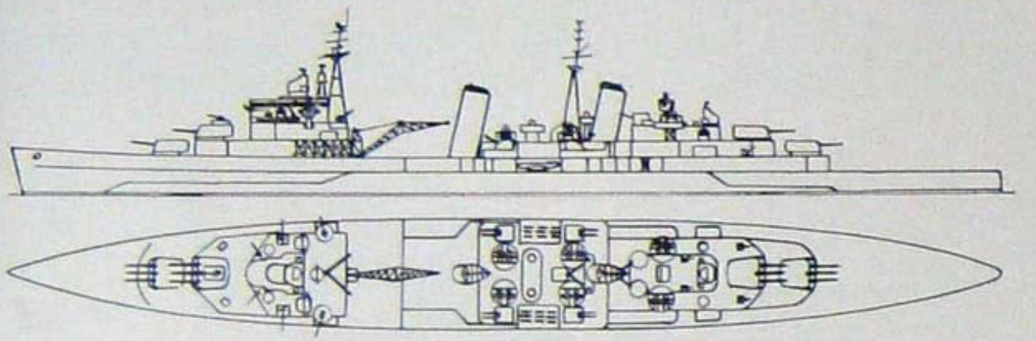
Est.	*Name*	*Builders*	*Engineers*	*Ordered*	*Laid Down*	*Launched*	*Completed*
1937	*Kenya*	Stephen	Stephen	Dec. 1937	18 June 1938	18 Aug. 1939	28 Aug. 1940
1937	*Mauritius*	Swan Hunter	Wallsend Slipway	Dec. 1937	31 Mar. 1938	19 July 1939	14 Dec. 1940
1937	*Nigeria*	V.-A., Tyne	Parsons	Dec. 1937	8 Feb. 1938	18 July 1939	20 Sep. 1940
1938	*Gambia*	Swan Hunter	Wallsend Slipway	1939	24 July 1939	30 Nov. 1940	21 Feb. 1942
1938	*Jamaica*	V.-A., Barrow	V.-A., Barrow	1939	28 Apr. 1939	16 Nov. 1940	29 June 1942
1939	*Bermuda*	Clydebank	Clydebank	1939	30 Nov. 1939	11 Sep. 1941	5 Aug. 1942

317R

BELFAST. *Lieut. A. W. Sugden, R.N.*

BELFAST

Builders :	Harland & Wolff, Ltd., Belfast
Laid down :	10 Dec. 1936
Launched :	17 Mar. 1938
Completed	3 Aug. 1939
Displacement :	11,550 tons (15,000 tons *full load*)
Dimensions :	Length : 579 (*pp.*), 613½ (*o.a.*) feet. Beam. 66½ feet. Draught : 17 feet (23 feet *max.*)
Guns :	12—6 inch, 8—4 inch AA., 34—2 pdr. pompoms, 7—40 mm. AA., 2—20 mm. AA.
Tubes :	6—21 inch (tripled)
Armour :	2½" turrets, 5"—3" side, 4" C.T.
Machinery :	Parsons geared turbines. 4 shafts. S.H.P. : 80,000 = 32·5 kts.
Boilers :	8 Admiralty 3-drum type
Complement :	847 (peace)



General Notes.—Improved " Liverpool " type. The largest cruiser in the Royal Navy. Designed displacement was 10,000 tons with beam of 63½ feet, since increased. Built under 1936 Estimates. Internal subdivision is exceptionally complete. Was practically rebuilt after being heavily damaged by a mine in early months of war, beam being increased and other alterations made. Sister ship *Edinburgh* lost in action, 1942.

Armour Notes.—Reported to be designed to withstand 8-inch shell-fire. Armour extends over entire length of citadel, and protective deck right across ship's breadth above magazines.

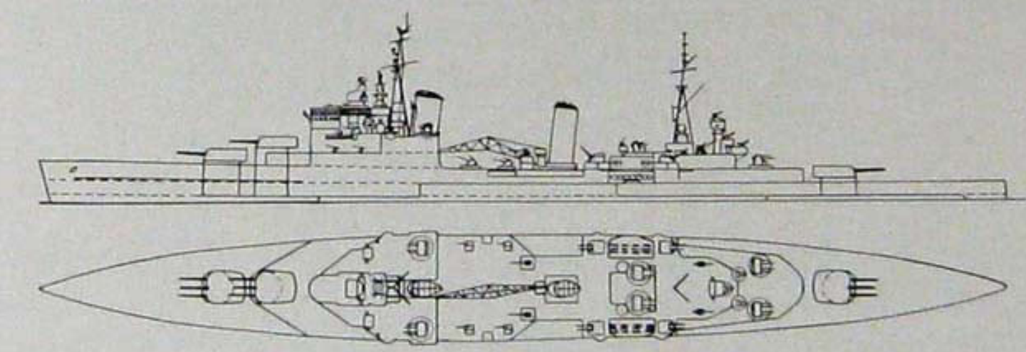
Reconstruction Notes.—When she was mined her back was broken, and in the course of repairs, to strengthen her, she was fitted with an external bulge adding approximately 2½ feet to her beam. This bulge roughly covers the same areas as the armour belt above the water line and can be seen in the photograph. Besides providing additional under-water protection, it has improved the ship's stability, thereby enabling her to retain her entire 6-inch armament despite extra top weight having been added ; but all these modifications have reduced her maximum speed by about two knots.

Gunnery Notes.—The light anti-aircraft armament comprises two 8-barrelled 2 pdr., four 4 barrelled-2 pdr., two single 2 pdr., seven single 40 mm., and two single 20 mm. guns.

LIVERPOOL. *1952, A. & J. Pavia.*

LIVERPOOL

Builders	Fairfield Shipbuilding & Engineering Co., Ltd., Govan
Laid down :	17 Feb. 1936
Launched :	24 Mar. 1937
Completed	25 Oct. 1938
Displacement	9,400 tons *standard* 12,680 tons (*full load*)
Dimensions :	Length ; 592 (*o.a.*) feet. Beam : 62½ feet. Draught : 17½ (*mean*), 22 (*max.*) feet
Guns :	9—6 inch, 8—4 inch, 26—2 pdr. pompoms, 8—40 mm. Bofors.
Tubes :	6—21 inch (tripled)
Armour :	2" turrets, 4" side, 4" C.T.
Machinery :	Parsons geared turbines. 4 shafts. S.H.P. : 82,500 = 32·3 kts.
Boilers :	8 Admiralty 3-drum type
Oil fuel :	2,000 tons
Complement :	850



General Notes.—Slightly enlarged and improved " Glasgow " type. Authorised under 1935 Estimates. Ordered March 1935. Engined by Fairfield. Bridge structure extends a considerable distance aft, enveloping fore-funnel and incorporating what were originally aircraft hangars, subsequently used as a cinema, offices, etc. War losses : *Gloucester, Manchester.*

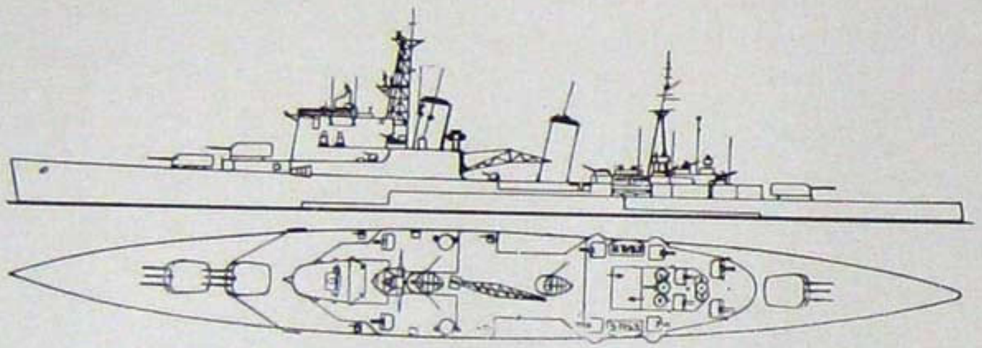
Appearance Notes.—Has rounded bridge front as in *Belfast* and " Mauritius " class.

4 " Newcastle " Class

BIRMINGHAM 1952, *Wright & Logan.*

BIRMINGHAM **GLASGOW** **NEWCASTLE** (*ex-Minotaur*) **SHEFFIELD**

Displacement :	9,100 tons *standard* (12,100 to 12,400 tons *full load*)
Dimensions :	Length : 558 (*pp.*), 584 (*w.l.*), 591½ (*o.a.*) feet. Beam : 61¦ feet. Draught : 17 (*mean*), 20 (*max.*), feet.
Guns:	9—6 inch, 8—4 inch AA., 8 to 24—2 pdr. pompoms, 6 to 24—40 mm. AA., 4 to 17—20 mm. AA. (*Birmingham* and *Newcastle* now mount 18—40 mm. AA.)
Tubes :	6—21 inch (tripled)
Armour :	2"—1" turrets, 4"—3" side, 4" C.T.
Machinery :	Parsons geared turbines, 4 shafts, S.H.P. : 75,000 = 32 kts.
Boilers :	8 Admiralty 3-drum type
Oil fuel :	1,970 tons
Complement :	809-833 (peace)



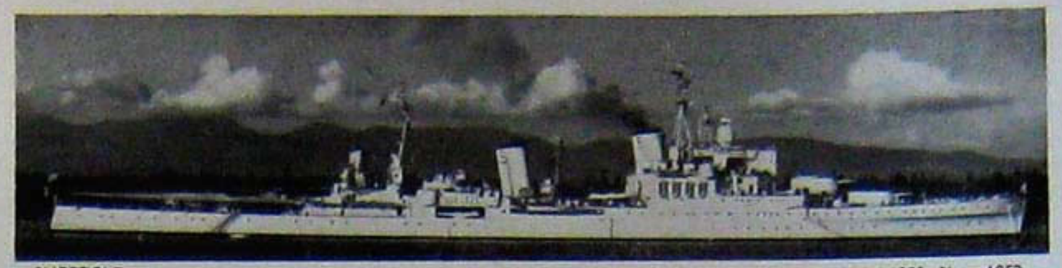
Note to Plan.—Drawing represents *Birmingham* and *Newcastle* after reconstruction. For *Glasgow* and *Sheffield* see photos.

General Notes.—Built under 1933 (*Newcastle*) and 1934 Navy Estimates. Centre gun of each turret is mounted slightly further back than other two. Protection is somewhat better than in previous classes. In all ships of class, special ventilating trunks have been installed, with openings on either side of hull at break of deck level abreast of " B " turret. War loss : *Southampton*.

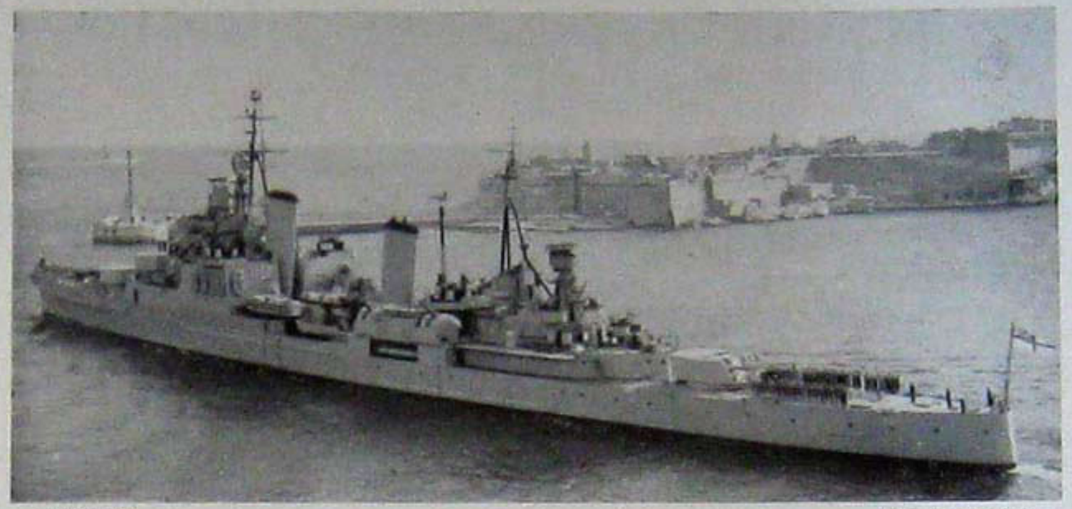
Gunnery Notes.—New 4 inch directors abreast forefunnel in *Birmingham* and *Newcastle*.

Appearance Notes.—Longer than *Mauritius* and *Superb* types with raked funnels and former hangar structure. *Birmingham* differs from remainder of class in having plain bow without knuckle. *Glasgow* had aircraft homing beacon on starboard side abaft after funnel which distinguished her from *Sheffield*. Lattice foremast and round bridge in *Birmingham* and *Newcastle*.

Reconstruction Notes.—*Birmingham* and *Newcastle* extensively reconstructed and modernised, 1950-52, modifications including new bridge structure rebuilt with round front, revised armament arrangements and air conditioning. New lattice foremast, but tripod mainmast retained. *Sheffield* underwent long refit 1949-51, but was not so drastically modified as regards appearance (see photo). *Glasgow* refit 1950-51.



SHEFFIELD. *Added* 1953, *Photo* 1952.



GLASGOW 1953, *A. & J. Pavia.*

NEWCASTLE 1952, *Abrahams.*

Name	*Builders*	*Engineers*	*Ordered*	*Laid down*	*Launched*	*Completed*
Newcastle	Vickers-Armstrongs, Ltd., Tyne	V.-A., Barrow	1 June 1934	4 Oct. 1934	23 Jan. 1936	5 Mar. 1937
Sheffield	Vickers-Armstrongs, Ltd., Tyne	V.-A., Barrow	17 Dec. 1934	31 Jan. 1935	23 July 1936	25 Aug. 1937
Glasgow	Scotts S.B. & Eng. Co. Ltd.	Scotts	17 Dec. 1934	16 Apr. 1935	20 June 1936	8 Sep. 1937
Birmingham	H.M. Dockyard, Devonport	Clydebank	1 Mar. 1935	18 July 1935	1 Sep. 1936	18 Nov. 1937

Cadets' Training Cruiser.

DEVONSHIRE. 1953, *Skyfotos.*

DEVONSHIRE. *Added 1950, courtesy Lieut. A. W. Sugden, R.N.*

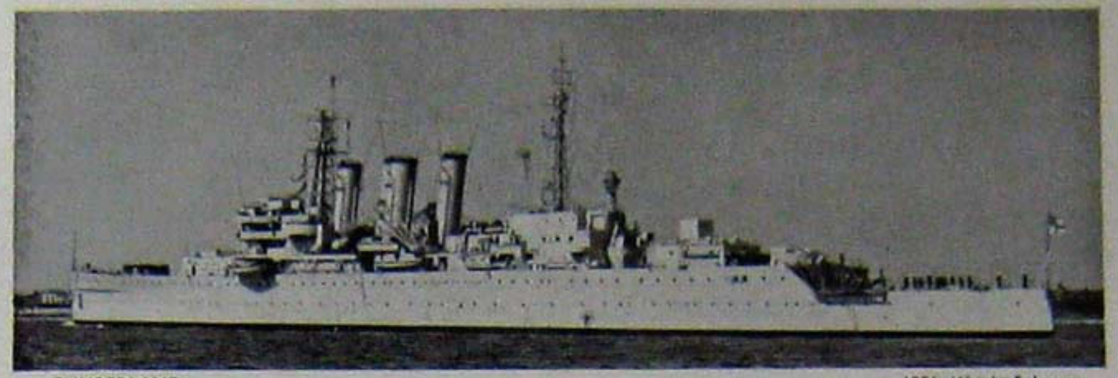
DEVONSHIRE

Builders :	H.M. Dockyard, Devonport
Engineers :	Vickers, Ltd., Barrow
Laid down:	16 Mar. 1926
Launched:	22 Oct. 1927
Completed:	19 Mar. 1929

Displacement:	9,850 tons (13,300 tons *full load*)
Dimensions:	Length: 595 (*pp.*), 630 (*o.a.*) feet. Beam: 66 feet. Draught: 17 (mean) 21¼ (*max.*) feet
Guns:	2—8 inch, 50 cal.,(instructional only), 4—4 inch AA., 4—2 pdr. pompoms (quadruple), 1—40 mm. Bofors AA., 3—20 mm. AA., 4—3 pdr. (saluting)
Armour:	4" deck, 2"-1½" gunhouse
Machinery:	Parsons geared turbines. 4 shafts. S.H.P.: 40,000=21 kts. (*max.*) Sea speed 15 kts.
Boilers:	8 Admiralty 3-drum type (only 4 in use)
Oil fuel:	3,200 tons

Notes.—Originally a heavy cruiser of the "County" class with a main armament of 8—8 inch guns and engines of 80,000 S.H.P. equa to a speed of 32·25 kts. Rebuilt from after funnel to stern on conversion in 1946-47, navigational and instructional classrooms being added as superstructure and armament much reduced. Became sea-going training ship for officer cadets in April 1947. Now without large director on bridge. All the original propelling machinery is used, but only four boilers at a time Relieved as training ship end of 1953. Officially announced that her future is under consideration.

Trials Cruiser.

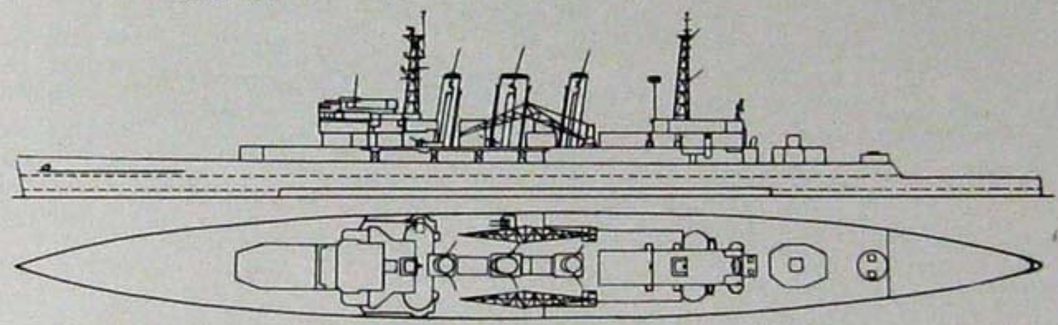


CUMBERLAND. 1951, *Wright & Logan.*

CUMBERLAND

Builders :	Vickers, Ltd., Barrow
Engineers:	Vickers, Ltd., Barrow
Laid down :	18 Oct. 1924
Launched :	16 Mar. 1926
Completed :	Jan. 1928

Displacement :	10,000 tons (13,540 tons *full load*)
Dimensions :	590 (*pp.*), 630 (*o.a.*) feet. Beam : 68½ feet. Draught : 16½ feet (*mean*)
Guns :	2—4·5 inch (on forecastle and abreast forefunnel, both starboard), 2—40 mm. AA. Armament varies from time to time (see notes)
Tubes:	1—21 inch (on stern)
Armour :	5"—3" side at w.l., 4" deck over vitals, 2"—1½" gun houses, 3" C.T.
Machinery :	Parsons geared turbines. 4 shafts. Designed S.H.P. : 80,000 = 31·5 kts.
Boilers :	8 Admiralty 3-drum type, with superheaters (250 lb. working pressure)
Oil fuel :	3,400 tons
Radius :	At full speed : 2,300 miles ; at economical speed (11-14 kts.) : 10,400 miles
Complement	679



General Notes.—Originally a heavy cruiser of the " County " class with a main armament of 8—8 inch guns. This ship was converted into the Royal Navy's first trials cruiser for the testing of anti-aircraft guns, torpedoes and guided missiles. Denny-Brown fin stabilisers are fitted to prevent rolling and assist in accuracy of fire control. This is the first large ship to be so equipped. Taken in hand for conversion 1949 and completed in May 1951 as a radar and radio experimental ship with much reduced armament, new directors, increased accommodation for experimental personnel and cage masts of medium height. A ship originally of this class, *Australia*, will be found in the Royal Australian Navy section. Two others, *Canberra* and *Cornwall*, were lost in action, and *Kent*, *Berwick* and *Suffolk* have been scrapped

Previous Conversion Notes.—This ship was reconstructed during 1935-38, alterations including removal of torpedo tubes, increased armour protection, and modernisation of the anti-aircraft armament. To compensate for the additional weight so imposed, she was cut down by one deck aft. She had large after superstructure before the mainmast, subsequently removed.

Armour Notes.—No side armour was included in original design, protection being afforded by a 3 inch—1½ inch deck. External bulges are fitted and the internal subdivision is particularly well planned.

Gunnery Notes.—After conversion was first armed with 2—4.5 inch guns and 4—40 mm. Bofors AA., but since fitted with further new weapons for trials. Barbette of " B " 8-inch gun turret remains. " Battle " type director on the upper starboard bridge wing. Small radar scanner of " cheese-cutter " variety mounted on bridge. Small lattice tower aft in " X " position.

Fast Minelayers.

3 " Manxman " Class.

APOLLO. 1952, A. & J. Pavia.

MANXMAN. 1952 A. & J. Pavia.

	APOLLO	ARIADNE	MANXMAN
Displacement :	2,650 tons (4,000 tons *full load*)		
Dimensions :	418 (*o.a.*) × 40 × 11¼ feet (16 feet *max.*)		
Guns :	*Apollo*, 4—4 inch, 10—40 mm. AA., 2—20 mm. AA. ; *Ariadne*, 4—4 inch, 4—40 mm. AA. ; *Manxman*, 6—4 inch, 6—40 mm. AA.		
Mines :	100		
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 72,000 = 40 kts. *max.*		
Complement :	242-246 (peace)		

General Notes.—*Manxman* built under 1938 Estimates ; others are war construction. Former ship was torpedoed by an enemy submarine and badly damaged, Nov. 1942. War losses of this type : *Abdiel*, *Latona*, *Welshman*, all 1938 Programme.

Appearance Notes.—*Ariadne* is similar to *Apollo*, but armament of *Manxman* differs considerably.

Name	*Builders and Engineers*	*Laid down*	*Launched*	*Completed*
Apollo	R. & W. Hawthorn, Leslie & Co. Ltd., Hebburn	10 Oct. 1941	5 Apr. 1943	12 Feb. 1944
Ariadne	Alex. Stephen & Sons, Ltd., Glasgow	15 Nov. 1941	16 Feb. 1943	9 Oct. 1943
Manxman	Alex. Stephen & Sons, Ltd., Glasgow	24 Mar. 1939	5 Sep. 1940	20 June 1941

Monitors.

2 " Abercrombie " Class.

ABERCROMBIE. *Added 1951, Wright & Logan.*

ROBERTS. 1946, *London Studio.*

	ABERCROMBIE	ROBERTS
Displacement:	7,850 and 7,970 tons, respectively (9,720 and 9,180 tons *full load*)	
Dimensions:	373½ (*o.a.*) × 89½ × 11 (*mean*)	
Guns:	2—15 inch, 42 cal., 8—4 inch, 16—2 pdr., 14—20 mm. AA., (*Roberts*, 8—40 mm., 8—20 mm.)	
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 4,800 = 12 kts.	
Boilers:	2 Admiralty 3-drum type	

General Notes.—These ships were armed with 15 inch guns formerly mounted in discarded earlier monitors. Both now in reserve.

Appearance Notes.—The 4 inch AA. guns are a deck higher in *Abercrombie* than in *Roberts*. Tripod foremast legs are visible in *Roberts*.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Abercrombie	Vickers-Armstrongs, Ltd., Tyne	26 May 1941	31 Mar. 1942	5 May 1943
Roberts	John Brown & Co., Ltd., Clydebank	30 Apr. 1940	1 Feb. 1941	27 Oct. 1941

(All fitted as Leaders).

8 " Daring " Class.

DUCHESS. 1953, *Wright & Logan.*

DAINTY **DECOY** (ex-*Dragon*) **DELIGHT** (ex-*Disdain*, ex-*Ypres*) **DIANA** (ex-*Druid*)
DARING **DEFENDER** (ex-*Dogstar*) **DIAMOND** **DUCHESS**

Displacement :	2,610 tons (3,500 to 3,700 tons *full load*)
Dimensions :	366 (*pp.*), 390 (*o.a.*) × 43 × 12½ feet (*max.*)
Guns :	6—4·5 inch, in twin turrets, two forward and one aft, 6—40 mm. AA.
Tubes :	10—21 inch, in two pentad mountings
A/S weapons :	Squid
Machinery :	Parsons double reduction geared turbines. English Electric Co. design in Yarrow ships. 2 shafts. Speed : Over 30 kts.
Boilers :	Foster-Wheeler in *Dainty*, *Defender*, *Diamond*, Duchess and another, Babcock in remaining three.
Complement :	308 (as leaders), 278 (others)

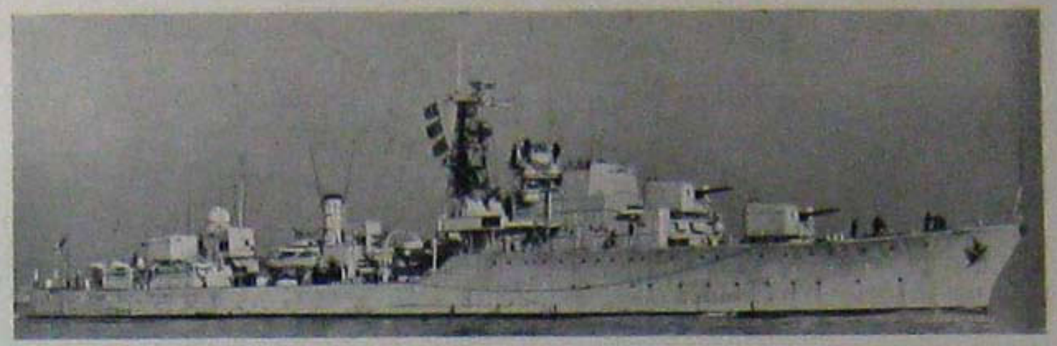
General Notes.—Known as destroyers until 1953 when they were officially categorised as " Daring Class ships " They can equally perform a number of roles satisfactorily. In many respects they can carry out the functions of cruiser reconnaissance, and they can also act as excellent anti-submarine or anti-ship craft. All are fitted as leaders. These ships, which are largely experimental, constitute an expansion and merging of the " Weapon " and " Battle " designs with increased armament, and were the largest destroyers ever built for the Royal Navy. They almost fall into the light cruiser category, especially as they have the typical cruiser gun turret disposition. Of all-welded hull construction, they incorporate features based on lessons learned during the Second World War, as well as all the improvements devised since although the basic plan was a war-time design intended to be used against the Japanese. They represent the most ingenious type and the most comprehensive light warship class ever built for the Admiralty. Special arrangements were made to ensure that habitability and layout of accommodation are the best possible. They have the finest anti-aircraft and anti-submarine systems devised. Cost £2,280,000 (*Daring*) £2,280,000 (*Diamond*).

Engineering Notes.—The main propelling machinery is of advanced design developed by PAMETRADA (Parsons and Marine Engineering Turbine Research and Development Association) and manufactured by Wallsend Slipway & Engineering Co., Ltd., in *Daring* and by builders in others. The steam conditions are the highest yet used in ships of the Royal Navy and the boilers are designed for superheat control.

Electrical Notes.—All-electric galleys, laundry and fluroescent lighting. In four ships, *Decoy*, *Diamond*, *Diana*, and *Duchess*, the electrical installation differs from previous practice in ships of the Royal Navy in that it is an alternating current installation, operating at 440 volts. 3 phase, 60 cycles per second. Remaining four ships, *Dainty*, *Daring*, *Defender*, and *Delight* have direct current installation, 220 volts

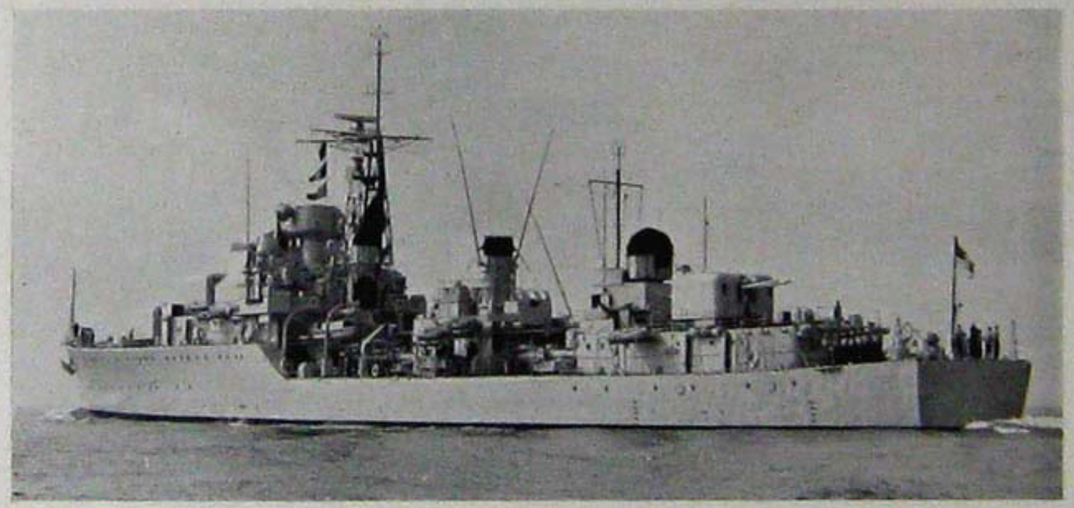
Class Notes.—Other units of this class ordered under the War Construction Programme but cancelled after hostilities were *Danae* original *Decoy*, original *Delight*, *Demon*, *Dervish*, *Desire*, *Desperate* and *Doughty*.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Dainty	J. Samuel White & Co., Ltd., Cowes	17 Dec. 1945	16 Aug. 1950	Mar. 1953
Daring	Swan, Hunter & Wigham Richardson	29 Sep. 1945	10 Aug. 1949	2 Feb. 1952
Decoy	Yarrow & Co. Ltd., Scotstoun	22 Sep. 1946	29 Mar. 1949	28 Apr. 1953
Defender	Alex. Stephen & Sons, Ltd., Govan	22 Mar. 1949	27 July 1950	Dec. 1952
Delight	Fairfield S.B. & Eng. Co., Ltd., Govan	5 Sep. 1946	21 Dec. 1950	
Diamond	John Brown & Co., Ltd., Clydebank.	15 Mar. 1949	14 June 1950	End Feb. 1952
Diana	Yarrow & Co., Ltd., Scotstoun	3 Apr. 1947	8 May 1952	
Duchess	John I. Thornycroft & Co., Ltd., Woolston	2 July 1948	9 Apr. 1951	Nov. 1952



DEFENDER. 1953, *Wright & Logan.*

DARING (showing silhouette.) 1953, *A. & J. Pavia.*



DIAMOND. 1952, *Wright & Logan.*

Fleet Destroyers.

8 Later " Battle " Class.

JUTLAND. 1950, *Wright & Logan.*

AISNE. 1950, *Abrahams.*

2 *Clydebank*	2 *Hawthorn Leslie*	2 *Stephen*	1 *Swan Hunter*
BARROSA	**AGINCOURT**	**DUNKIRK**	**CORUNNA**
MATAPAN	**ALAMEIN**	**JUTLAND** (ex-*Molpiaquet*)	1 *Vickers-Armstrongs (Tyne)*
			AISNE

Displacement :	2,380 tons, Leaders 2,400 tons (3,315 to 3,375 tons *full load*)
Dimensions :	355 (*pp.*), 379 (*o.a.*) × 40½ × 12¾ (*mean*), 17½ (*max.*) feet
Guns :	5—4·5 inch, 8—40 mm. AA.
Tubes :	10—21 inch (quintupled)
A/S weapons :	1 Squid
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 50,000 = 31 kts.
Complement :	232 to 268 (peace), 337 (war)

General Notes.— Apart from heavier armament, this class embodies several other improvements. *Agincourt, Alamein, Corunna* and *Jutland* are fitted as Leaders. Sixteen more destroyers of this type were cancelled before completion, including original *Jutland Mons, Poictiers* (all ordered from Hawthorn Leslie), *Namur, Navarino, San Domingo* (all Cammell Laird), *Talavera, Trincomalee* (both Clydebank), *Belleisle, Omdurman, Waterloo* (ex-*Vimiera*) all Fairfield), *St. Lucia* (Stephen), *Oudenarde, River Plate* (both Swan Hunter), *Albuera* (Vickers-Armstrongs), and *Somme* (Cammell Laird). At least 8 of these had been launched before cancellation.

Gunnery Notes.—U.S.N. type fire control apparatus fitted, also latest type twin Bofors.

Appearance Notes.—Distinguished from Groups I and II by very large director tower of U.S. pattern and single 4·5 inch abaft funnel. *Corunna* and *Dunkirk* have H/F D/F mast aft.

Name	*Laid down*	*Launched*	*Completed*
Agincourt	12 Dec. 1943	29 Jan. 1945	25 June 1947
Aisne	26 Aug. 1943	12 May 1945	20 Mar. 1947
Alamein	1 Mar. 1944	28 May 1945	21 May 1948
Barrosa	28 Dec. 1943	17 Jan. 1945	14 Feb. 1947
Corunna	12 Apr. 1944	29 May 1945	6 June 1947
Dunkirk	19 July 1944	27 Aug. 1945	27 Nov. 1946
Jutland	27 Nov. 1944	20 Feb. 1946	30 Apr. 1947
Matapan	11 Mar. 1944	30 Apr. 1945	5 Sep. 1947

AGINCOURT. 1950, *Wright & Logan.*

BARROSA. 1950, *Wright & Logan.*

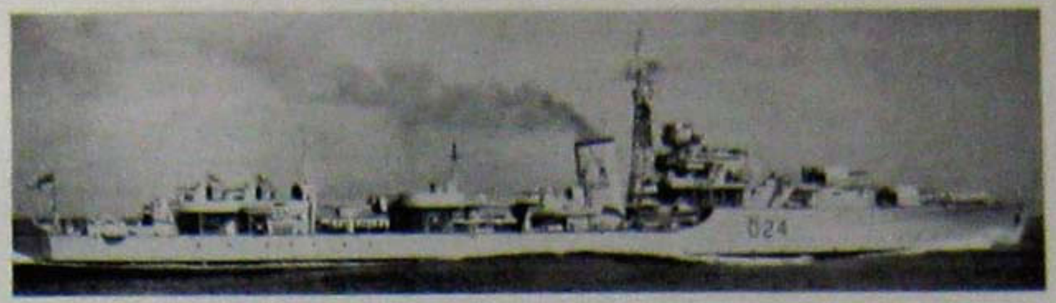
ALAMEIN. 1949, *Abrahams.*

314R

Fleet Destroyers.

16 " Early Battle " Class.

SLUYS. 1953, Wright & Logan.



GRAVELINES. 1953, A. & J. Pavia.

GROUP I (Trafalgar type)

Cammell Laird	*4 Swan Hunter*
HOGUE	BARFLEUR
LAGOS	GABBARD
	ST. KITTS
2 Fairfield	TRAFALGAR
CAMPERDOWN	
FINISTERRE	

GROUP II (Armada type)

2 Cammell Laird	*3 Hawthorn Leslie*
GRAVELINES	ARMADA
SLUYS	SAINTES
	SOLEBAY
3 Fairfield	
CADIZ	
ST. JAMES	
VIGO	

Displacement :	2,315 tons Leaders 2,325 tons (3,235 to 3,300 tons *full load*)
Dimensions :	355 (*pp.*), 379 (*o.a.*) × 40½ × 12¼ (mean), 17 (max) feet
Guns :	4—4·5 inch, 9 or 10—40 mm. AA., 2 D.C.T. (*Camperdown, Hogue* and *Trafalgar* also have 1—4 inch in " Q " position
Tubes :	Group II; 10—21 inch (quintupled); Group I; *Trafalgar* and others 8—21 inch (quadrupled)
A/S Weapons :	Squid (in *Barfleur, Cadiz, Gravelines, Saintes, St. James, St. Kitts, Sluys* and *Soleboy*) on starboard of A.X.
Machinery :	Parsons geared turbines, 2 shafts. S.H.P. : 50,000 = 32 kts.
Boilers :	2 Admiralty 3-drum type
Complement :	247 to 308 (peace) ; 337 (war)

General Notes.—These destroyers were designed with a view to operations in the Pacific. *Armada, Barfleur, Saintes, St. James, Soleby* and *Trafalgar* fitted as Leaders. *Finisterre* is employed as gunnery firing and training ship. *Barfleur* as refitted no longer mounts a single 4-inch gun in " Q " position.

Gunnery Notes.—As completed all Group I carried 1—4 inch L.A. abaft funnel—now replaced in four ships by 40 mm. AA. The 4·5 inch guns have 85 degrees elevation. Group II have Bofors twin mountings of newest type.

Appearance Notes.—First destroyers with all main armament forward. Little distinction between Groups I and II. At least one of Group II has only quadruple torpedo tube mountings. *Finisterre* has reduced H.A. armament as Gunnery Training Ship.

Name	*Laid down*	*Launched*	*Completed*
Armada	29 Dec. 1942	9 Dec. 1943	2 July 1945
Barfleur	28 Oct. 1942	1 Nov. 1943	14 Sep. 1944
Cadiz	10 May 1943	16 Sep. 1944	12 Apr. 1946
Camperdown	30 Oct. 1942	8 Feb. 1944	18 June 1945
Finisterre	8 Dec. 1942	22 June 1944	11 Sep. 1945
Gabbard	2 Feb. 1944	16 Mar. 1945	10 Dec. 1946
Gravelines	10 Aug. 1943	30 Nov. 1944	14 June 1946
Hogue	6 Jan. 1943	21 Apr. 1944	24 July 1945
Lagos	8 Apr. 1943	4 Aug. 1944	2 Nov. 1945
Saintes	8 June 1943	19 July 1944	27 Sep. 1946
St. James	20 May 1943	7 June 1945	12 July 1946
St. Kitts	8 Sep. 1943	4 Oct. 1944	21 Jan. 1946
Sluys	24 Nov. 1943	28 Feb. 1945	30 Sep. 1946
Soleboy	3 Feb. 1943	22 Feb. 1944	11 Oct. 1945
Trafalgar	15 Feb. 1943	12 Jan. 1944	23 July 1945
Vigo	11 Sep. 1943	27 Sep. 1945	9 Dec. 1946

FINISTERRE. 1951, Skyfotos.

VIGO. 1951, Wright & Logan.

Fleet A/S Destroyers.

4 " Weapon " Class.

BATTLEAXE.

1951, *Skyfotos.*

SCORPION.

1953, *Wright & Logan.*

BATTLEAXE (Leader)
BROADSWORD

CROSSBOW
SCORPION (ex-*Tomahawk*, ex-*Centaur*)

Displacement :	1,980 tons *standard* (2,840 tons *full load*)
Dimensions :	341½ (*pp.*), 365 (*o.a.*) × 38 × 12¼ (*mean*), 17 (*max.*) feet
Guns :	4—4 inch (in twin mounts), 6—40 mm. AA.
A/S Weapons :	2 Squids, 15 D.C.s
Tubes :	10—21 inch (quintupled)
Machinery	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts.
Boilers :	2 Foster-Wheeler, with controlled superheat of 750 degrees F. and working pressure of 430 lb. per sq. inch
Complement :	234 (*Battleaxe*, 256)

General Notes.—Specially armed and equipped as fleet anti-submarine escorts. They embody novel features in ship and engine design. Both *Battleaxe* and *Broadsword* are fitted as Leaders.

A/S Weapon Notes.—The 2 Squids (3-barrelled depth charge mortars) are in " B " position in *Battleaxe* and *Broadsword*, and " X " position in *Crossbow* and *Scorpion*.

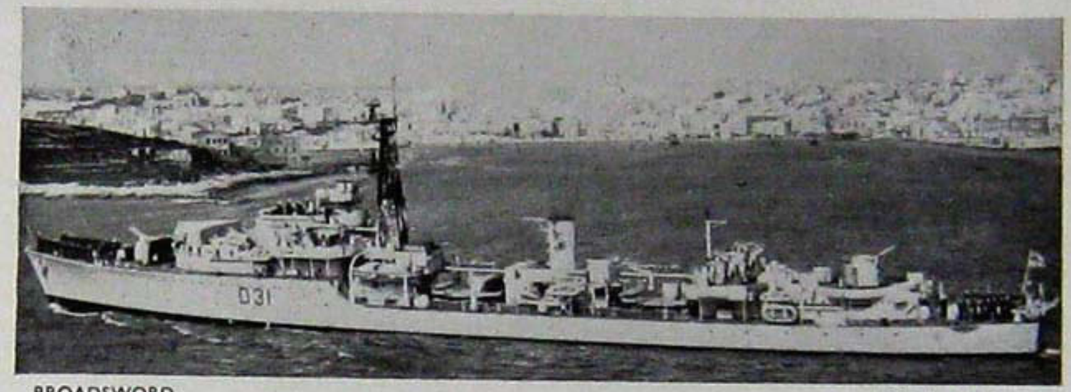
Gunnery Notes.—*Crossbow* and *Scorpion* have 4-inch disposed in " A " and " B " positions but in *Battleaxe* and *Broadsword* they are in " A " and " X " positions.

Engineering Notes.—There are two engine-rooms and two boiler-rooms, arranged alternately *en echelon*.

Appearance Notes.—First two-funnelled destroyers since pre-war " I " and " Tribal " classes, though forefunnel is not markedly apparent, being enveloped by lattice mast except for protruding cowl top, and second funnel is not very conspicuous, being a squat and vertical stack considerably further aft. Are of two types, easily distinguished—see A/S Weapon and Gunnery Notes above.

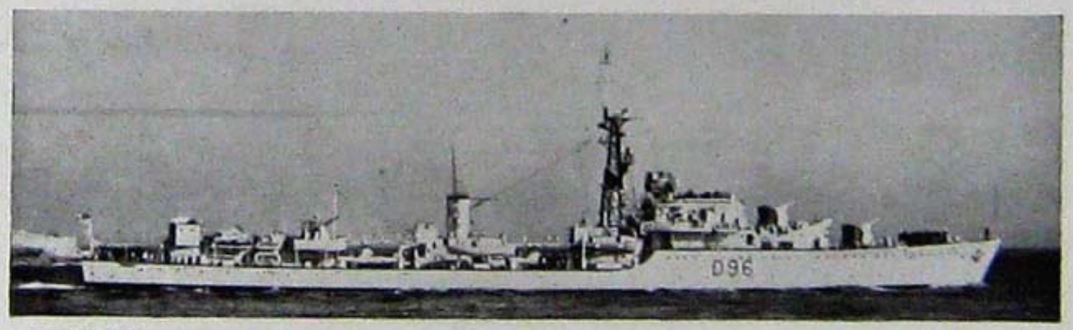
Class Notes.—Cancelled ships of class included *Carronade* (Scotts), *Culverin* (Thornycroft), *Cutlass* and *Dagger* (Yarrow), *Claymore* and *Dirk* (Scotts), *Halberd*, *Howitzer* (Thornycroft), *Longbow* (Thornycroft), *Musket* (White), *Poniard*, *Rifle* (Denny), *Sword* (ex-*Celt*) (White), *Grenade*, *Lance* and *Rapier*. Of these, *Carronade*, *Culverin* and *Cutlass*, if not others, were actually launched before construction was abandoned.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Battleaxe	Yarrow & Co. Ltd., Scotstoun	22 Apr. 1944	12 June 1945	23 Oct. 1947
Broadsword	Yarrow & Co., Ltd., Scotstoun	20 July 1944	5 Feb. 1946	4 Oct. 1948
Crossbow	John I. Thornycroft & Co., Woolston	26 Aug. 1944	20 Dec. 1945	4 Mar. 1948
Scorpion	J. Samuel White & Co., Ltd., Cowes	16 Dec. 1944	15 Aug. 1946	17 Sep. 1947



BROADSWORD.

1952, *A. & J. Pavia.*

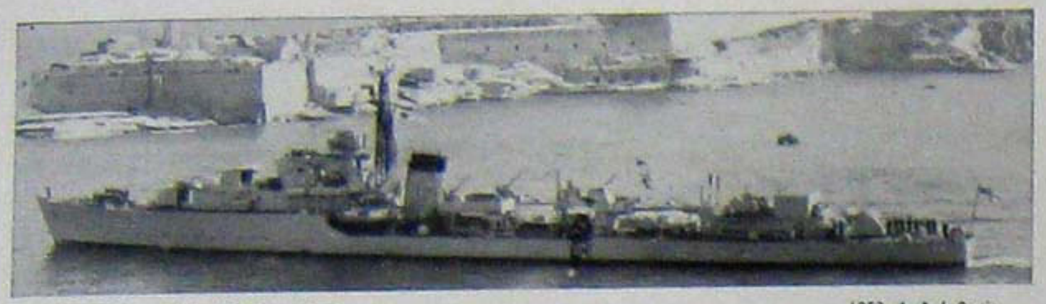


CROSSBOW

1952, *A. & J. Pavia.*

A/S Destroyers ("C" Group.)

26 "Ca", "Ch", "Co", "Cr" Classes.



CHEQUERS (squids in "X" position). 1953, A. & J. Pavia.

2 *Clydebank*
CAESAR (ex-*Ranger* ; Leader)
CAVENDISH (ex-*Sibyl* ; Leader)

2 *Denny*
CHILDERS (ex-*Pellew* ; Leader)
CHIVALROUS

4 *Scotts*
CAMBRIAN (ex-*Spitfore*)
CARRON (ex-*Strenuous*)
CHEQUERS (Leader)
CHIEFTAIN

3 *Stephen*
CHEVIOT
CHEVRON
CONSORT

4 *Thornycroft*
CHAPLET
CHARITY
COMUS
CONCORD (ex-*Corso*)

2 *Vickers Armstrongs (Tyne)*
CONSTANCE "
COSSACK (Leader)

5 *White*
CARYSFORT
CAVALIER
CONTEST
CRISPIN (ex-*Croccher*)
CREOLE

4 *Yarrow*
CAPRICE (ex-*Swallow*
CASSANDRA (ex-*Tourmaline*)
COCKADE
COMET

Displacement :	1,710 tons (*Cavendish* and *Childers*, 1,730 tons) (2,515 tons to 2,560 tons *full load*)
Dimensions :	362½ × 35½ × 10 (*mean*), 16 (*max.*) feet
Guns :	3 or 4—4·5 inch, 2 to 7—20 mm. AA., 2 to 6—20 mm. or 2 pdr. AA. All later "C" class will eventually carry 3—4·5 inch, 6—40 mm. AA., 2 squids
Tubes :	4—21 inch (quadrupled), except "Ca" Class, 8
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 33 kts.
A/S Weapons :	2 squids (*Chequers, Cheviot, Chieftain, Cockade, Consort*) in "X" position
Boilers :	2 Admiralty 3-drum type
Complement :	186 (Leaders, 222)

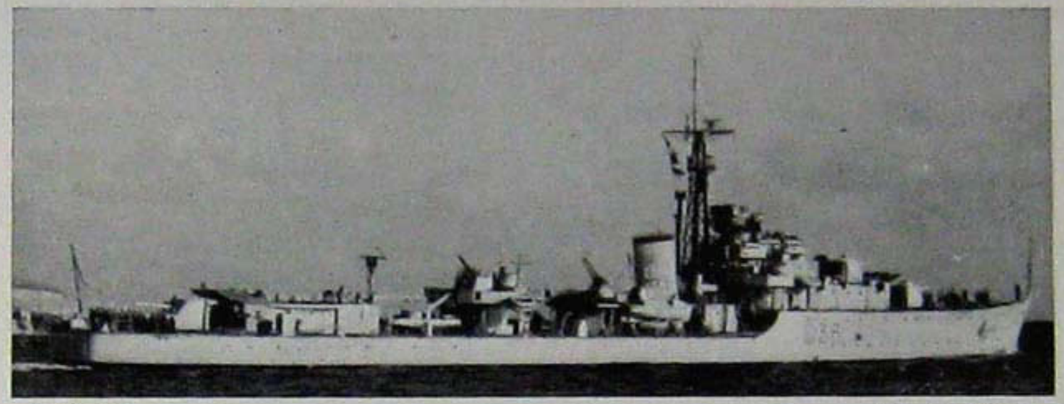
General Notes.—This group of destroyers are of emergency war design, with a modified form of hull. They were built as 4 flotillas i.e., "Ceasar," "Chequers," "Cossack," and "Crescent" classes. Later classes are of all-welded construction. Two of "Cr" class, *Crescent* and *Crusader* were transferred to the Royal Canadian Navy, and four more were sold to Norway.

Appearance Notes.—Most have tall lattice masts (*Caprice* short). To distinguish "Ca" from "Ch", "Co" and "Cr" classes, modern director, one set of tubes only to compensate for power-worked guns. "Ch", "Co" and "Cr" classes, one large director on bridge, no forward set of tubes. *Chivalrous, Comus, Concord, Crispin* have large AA. position amidships with light director as in "Battle" class. *Creole* and *Crispin* have W/T cabin instead of "B" gun. *Chaplet, Chevron, Childers, Chivalrous* and *Contest* have "X" gun removed. At present there are many variations in appearance as they are being refitted for A/S and modernised.

Name	*Laid down*	*Launched*	*Completed*
Caesar	3 Apr. 1943	14 Feb. 1944	5 Oct. 1944
Cambrian	14 Aug. 1942	10 Dec. 1943	17 July 1944
Caprice	28 Sep. 1942	16 Sep. 1943	5 Apr. 1944
Carron	26 Nov. 1942	28 Mar. 1944	6 Nov. 1944
Carysfort	12 May 1943	25 July 1944	20 Feb. 1945
Cassandra	30 Jan. 1943	29 Nov. 1943	28 July 1944
Cavalier	28 Feb. 1943	7 Apr. 1944	22 Nov. 1944
Cavendish	19 May 1943	12 Apr. 1944	13 Dec. 1944
Chaplet	29 Apr. 1943	18 July 1944	24 Aug. 1945
Charity	9 July 1943	30 Nov. 1944	19 Nov. 1945
Chequers	4 May 1943	30 Oct. 1944	28 Sep. 1945
Cheviot	27 Apr. 1943	2 May 1944	11 Dec. 1945
Chevron	18 Mar. 1943	23 Feb. 1944	23 Aug. 1945

Name	*Laid down*	*Launched*	*Completed*
Chieftain	27 June 1943	26 Feb. 1945	7 Mar. 1946
Childers	27 Nov. 1943	27 Feb. 1945	19 Dec. 1945
Chivalrous	27 Nov. 1943	22 June 1945	13 May 1946
Cockade	11 Mar. 1943	7 Mar. 1944	29 Sep. 1945
Comet	14 June 1943	22 June 1944	6 June 1945
Comus	21 Aug. 1943	14 Mar. 1945	8 July 1946
Concord	18 Nov. 1943	14 May 1945	20 Dec. 1946
Consort	26 May 1943	19 Oct. 1944	19 Mar. 1946
Constance	18 Mar. 1943	22 Aug. 1944	31 Dec. 1945
Contest	1 Nov. 1943	16 Dec. 1944	9 Nov. 1945
Cossack	18 Mar. 1943	10 May 1944	4 Sep. 1945
Creole	3 Aug. 1944	22 Nov. 1945	14 Oct. 1946
Crispin	1 Feb. 1944	23 June 1945	10 July 1946

CHIVALROUS. 1953, A. & J. Pavia.



CHIEFTAIN. 1953, A. & J. Pavia

COCKADE. 1951, Wright & Logan.

8 "Zambesi" Class.

MYNGS. 1953, *Wright & Logan.*

ZEPHYR. 1951, *Skyfotos.*

2 *Cammell Laird*	2 *Denny*	2 *Thornycroft*	2 *Vickers-Armstrongs (Tyne)*
ZAMBESI	**ZEBRA** (ex-*Wakeful*)	**ZEST**	**MYNGS** (Leader)
ZEALOUS	**ZENITH** (ex-*Wessex*)	**ZODIAC**	**ZEPHYR**

Displacement :	1,710 tons (*Myngs*, *Zephyr*, 1,730 tons) *standard*, 2,555 tons (*Myngs*, *Zephyr*, 2,575 tons) *full load*
Dimensions :	362¾ (*o.a.*) × 35½ × 16 (*max.*) feet
Guns :	3 to 4—4·5 inch, D.P., 6—40 mm. AA., 4 D.C.T. (but *Myngs* has 4—4·5 inch, 2—2 pdr. 3—40 mm., 2—20 mm.)
Tubes :	8—21 inch (no after tubes in *Myngs* and *Zambesi*)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 33 kts.
Boilers :	2 Admiralty type
Complement :	186

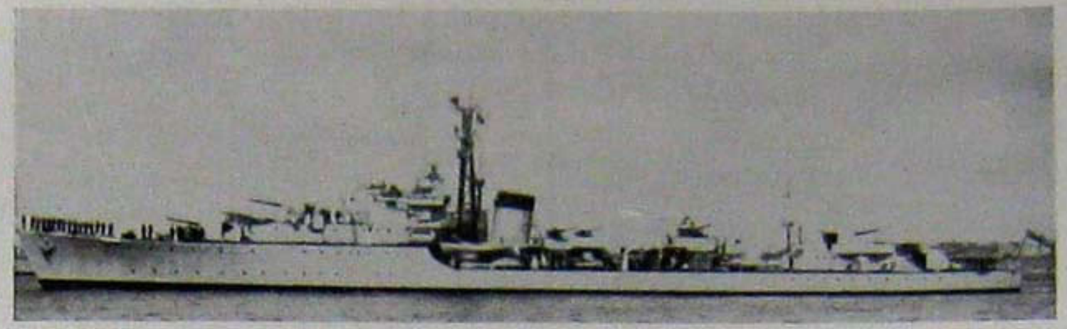
General Notes.—Machinery of last pair by Parsons. Understood to be of all-welded construction. *Zambesi* is employed as Submarine Target Ship, but is to be converted to a 1st Rate Frigate in the near future.

Appearance Notes.—First single 4·5 inch armed destroyers. One director on bridge, larger than in "W" class. Short lattice foremast in *Myngs*, *Zambesi*, tall in remainder. No "Y" gun in *Zambesi*, *Zealous*, *Zebra*, *Zephyr*, *Zest* and *Zodiac*.

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Myngs	27 May 1942	31 May 1943	23 June 1944	*Zenith*	19 May 1942	5 June 1944	22 Dec. 1944
Zambesi	21 Dec. 1942	21 Nov. 1943	18 July 1944	*Zephyr*	13 July 1942	15 July 1943	6 Sep. 1944
Zealous	5 May 1942	28 Feb. 1944	9 Oct. 1944	*Zest*	21 July 1942	14 Oct. 1943	20 July 1944
Zebra	14 May 1942	8 Mar. 1944	13 Oct. 1944	*Zodiac*	7 Nov. 1942	11 Mar. 1944	23 Oct. 1944

Destroyers—*continued.*

3 "Wager" Class.



WIZARD. 1952, *Abrahams*

1950, *Wright & Logan.*

KEMPENFELT (ex-*Valentine* ; Leader) **WAGER** **WIZARD**

Displacement :	1,710 tons (*Kempenfelt*, 1730 tons) *standard*, 2,505 tons (*Kempenfelt*, 2,525 tons) *full load*
Dimensions :	362¾ × 35½ × 16 feet
Guns :	4—4·7 inch, 5—40 mm. AA., 4—20 mm. AA., 4 D.C.T. (Some have 4—2 pdr.)
Tubes :	8—21 inch
Machinery :	Parsons geared turbines. S.H.P. : 40,000 = 33 kts.
Boilers :	2 Admiralty 3-drum type
Complement :	186

General Notes—Similar to "C" and "Z" classes, which have only one director tower on bridge. Wessex was transferred to South African Naval Forces, March 29, 1950 and renamed *Jan van Riebeeck*, and *Whelp* was transferred to South African Navy, early 1952, and renamed *Simon van der Stel*. *Wakefield*, *Whirlwind* and *Wrangler* have been converted to frigates, see later page.

Appearance Notes.—One director on bridge not so large as in later classes. Tall foremast in all. Some ships have single Bofors mounting high up abaft funnel in superfiring position.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Kempenfelt	John Brown & Co. Ltd., Clydebank	24 June 1942	8 May 1943	25 Oct. 1943
Wager	John Brown & Co. Ltd., Clydebank	20 Nov. 1942	1 Nov. 1943	14 Apr. 1944
Wizard	Vickers-Armstrongs, Ltd., Barrow	14 Sep. 1942	29 Sep. 1943	30 Mar. 1944

2 " Ulster " Class.

ULYSSES. 1951, *Skyfotos.*

ULSTER. 1950, *Abrahams.*

ULSTER **ULYSSES**

Displacement :	1,710 tons *standard* (2,510 tons *full load*)
Dimensions :	362¾ (*o.a.*) × 35½ × 16 (*max.*) feet
Guns :	4—4·7 inch, 4—40 mm. AA., 4—20 mm. AA.
Tubes :	8—21 inch (quadrupled)
Machinery:	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts.
Boilers :	2 Admiralty 3-drum Type
Complement:	180

General Notes.—Sister ships *Grenville, Undaunted, Undine, Urania, Urchin* and *Ursa* have been converted into fast anti-submarine frigates, see later page. *Ulysses* has been taken in hand, and *Ulster* is to be similarly converted in the near future.

Appearance Notes.—Similar to Troubridge class, separate director and range finder. Tall lattice mast in *Ulster*, short in *Ulysses*.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Ulster	Swan, Hunter & Wigham Richardson, Ltd., Wallsend.	12 Nov. 1941	9 Nov. 1942	30 June 1943
Ulysses	Cammell, Laird & Co., Ltd., Birkenhead.	14 Mar. 1942	22 Apr 1943	23 Dec. 1943

1 " Troubridge " Class.

TROUBRIDGE (Leader)

Builders :	John Brown & Co., Ltd., Clydebank
Laid down :	10 Nov. 1941
Launched :	23 Sep. 1942
Completed :	8 Mar. 1943

Displacement :	1,730 tons *standard* (2,530 tons *full load*)
Dimensions :	339½ (*pp.*), 362¾ (*o.a.*) × 35½ × 10 (*mean*), 16 (*max.*) feet
Guns :	4—4·7 inch, 4—2 pdr. pompoms, 4—20 mm. AA.
Tubes :	8—21 inch (quadrupled)
Machinery :	Parsons geared turbines. S.H.P. : 40,000 = 34 kts.
Boilers :	2 Admiralty 3-drum type
Complement :	180 to 200

General Notes.—*Teazer, Tenacious, Termagant, Terpsichore, Tumult, Tuscan* and *Tyrian*, originally of this class, have been converted to fast anti-submarine frigates, see later page. *Troubridge* is also to be taken in hand for limited conversion.

Appearance Notes.—Two directors on bridge. Tall lattice mast.

1 " Savage " Class.

SAVAGE. 1952, *J. W. Kennedy.*

SAVAGE

Builders:	R. & W. Hawthorn, Leslie & Co., Ltd., Dumbarton.
Laid down :	7 Dec. 1941
Launched :	24 Sept. 1942
Completed :	8 June 1943

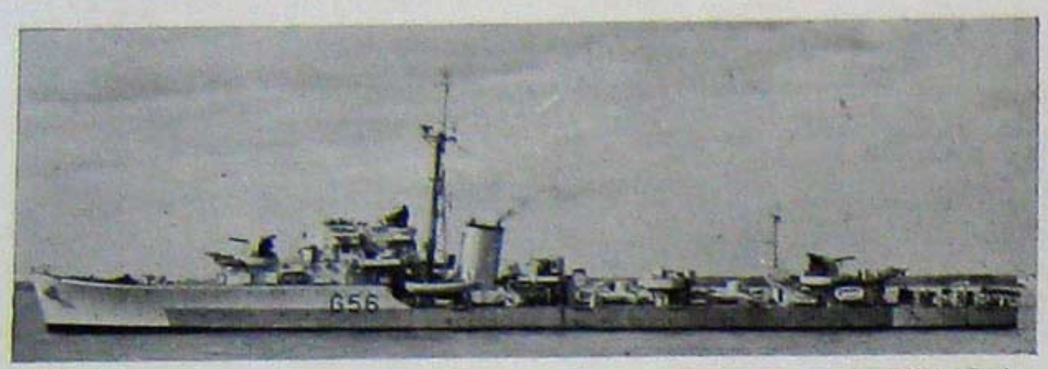
Displacement :	1,730 tons *standard* (2,515 tons *full load*)
Dimensions :	362¾ × 35½ × 16 feet
Guns :	4—4·5 inch (twin-turret and two single mountings) 12—20 mm. AA.
Tubes :	8—21 inch (quadrupled)
A/S weapons :	4 D.C.T.
Machinery :	Parsons geared turbines. S.H.P. : 40,000 = 32 kts.
Boilers :	2, of 3-drum type
Complement:	230

General Notes.—" Savage " class and five later groups were described officially as a utility type, priority having been given in the design to war requirements, above all other considerations. *Shark* (Scotts, since lost) and *Success* (White) were both transferred to the Royal Norwegian Navy ; *Scorpion, Scourge* and *Serapis* to the Royal Netherlands Navy, *Swift* (White) was lost in 1944 ; and *Saumarez* was so badly damaged by a mine in 1946 that she was not worth repairing. *Savage* is commissioned for experiments with shafts and propellers, but is scheduled for eventual conversion to a fast anti-submarine frigate.

Appearance Notes.—As will be observed from photo, *Savage* is fitted with a twin turret forward, prototype of those in " Battle " class, her armament being an experimental one. " Savage " class were first destroyers fitted with new type shields, *Savage* being first destroyer and only one of its class with new twin 4·5 inch turret.

Destroyers.

1 " Petard " Class.



PETARD. *Added 1951, Official.*

PETARD *(ex-Persistent)*

Builders :	Vickers-Armstrongs, Ltd. (Tyne)
Engineers :	Vickers-Armstrongs, Ltd. (Barrow)
Laid down :	26 Dec. 1939
Launched :	27 Mar. 1941
Completed :	14 June 1942
Displacement :	1,540 tons *standard* (2,430 tons *full load*)
Dimensions :	345 (*o.e.*) × 35 × 15¼ (*max.*) feet
Guns :	4—4 inch (2 twin H.A.), 2—20 mm.
Tubes :	8—21 inch
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts.
Boilers :	2, Admiralty 3-drum type
Oil fuel :	500 tons
Complement :	175

General Notes.—Sister ship *Paladin* is being converted into a fast anti-submarine frigate and will be found on a later page. Penn (used for ship target trials), *Pathfinder* and *Porcupine* were scrapped. War losses of this class were *Pakenham* (*ex-Onslow*) built by Hawthorn Leslie; *Panther* and *Partridge*, both built by Fairfield.

Conversion Note.—*Petard* is being taken in hand for rearmament as a fast anti-submarine frigate (*limited conversion*).

General Note

(" O " to " Z " *Classes*)

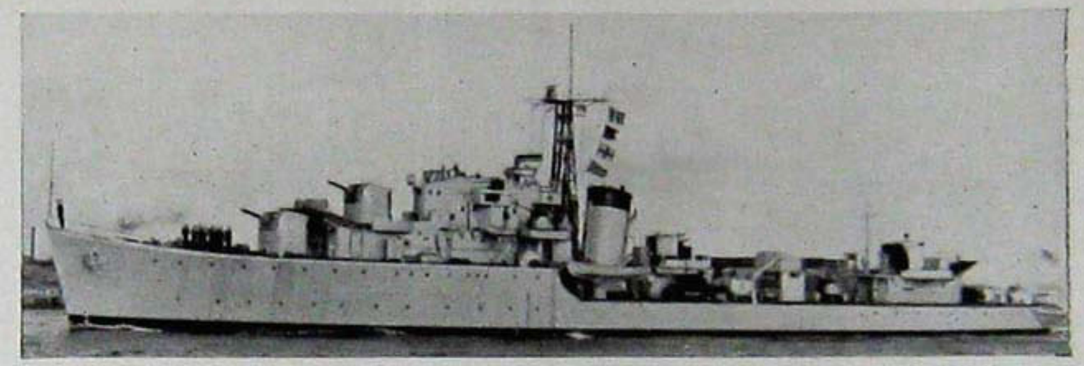
Tall or short lattice foremasts are stepped in most British destroyers. Those with tall masts include " C " Group, *Obedient*, *Obdurate*, *Petard*, *Troubridge*, *Ulster*, *Wager*, *Wizard*, *Zealous*, *Zenith*, *Zephyr*, and *Zodiac*. Those with shorter masts are *Myngs*, *Opportune*, *Ulysses*, *Zambesi*, *Zebra* and *Zest*.

General Conversion Notes.—45 destroyers of Z and earlier emergency classes were scheduled to be converted to fast anti-submarine frigates under the 1951-52 Programme. Of these 30 had been converted or were taken in hand for conversion by the end of 1953.

Minelaying Destroyers.

3 " Obdurate " Class.

OBDURATE. 1953, *Wright & Logan*



OPPORTUNE. 1952, *J. W. Kennedy.*

OBDURATE **OBEDIENT** **OPPORTUNE**

Displacement :	1,540 tons *standard* (2,400 tons *full load*)
Dimensions :	338½ (*pp.*), 345 (*o.a.*) × 35 × 9 (*mean*), 15¼ (*max.*) feet
Guns :	4—4 inch, (*Opportune* 3—4 inch), 4—2 pdr., 6—20 mm. AA.
Tubes :	Removed
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 36,000 = 31 kts.
Boilers :	2 Admiralty 3-drum type

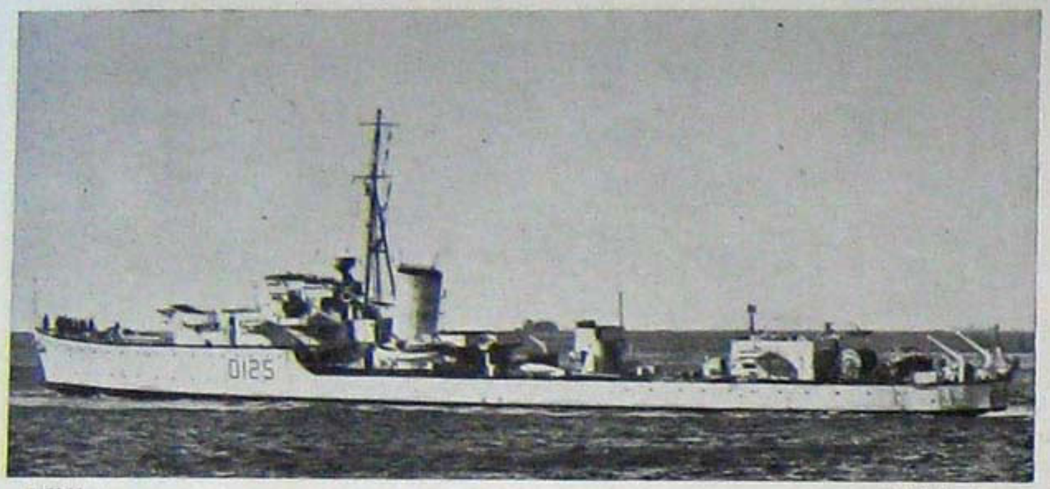
General Notes.—The surviving units of this class have been refitted as minelayers. They have old type 4-inch guns. These were the first destroyers built under War Construction Programme. *Oribi* was transferred to the Turkish Navy, and *Offa*, *Onslaught* and *Onslow* to Royal Pakistan Navy, and renamed; *Orwell* was converted into a fast anti-submarine frigate (see later page) in 1952. *Opportune* has been taken in hand, and *Obdurate* and *Obedient* will eventually also be converted into A/S frigates (limited conversion).

Appearance Notes.—*Opportune* refitted without " Y " gun or torpedo tubes. Tall lattice mast in *Obdurate* and *Obedient*, short in *Opportune*. Single director. Big sheer forward.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Obdurate	Wm. Denny & Bros., Ltd., Dumbarton	25 Apr. 1940	19 Feb. 1942	3 Sep. 1942
Obedient	Wm. Denny & Bros., Ltd., Dumbarton	22 May 1940	30 Apr. 1942	30 Oct. 1942
Opportune	John I. Thornycroft & Co., Ltd., Woolston	28 Mar. 1940	21 Jan. 1942	14 Aug. 1942

5 " Napier " Class.

NIZAM. 1951, *P. A. Vicary.*



NEPAL 1949, *Abrahams.*

NAPIER **NEPAL** (ex-*Norseman*) **NIZAM** **NOBLE** (ex-*Piorun*, ex-*Nerissa*) **NORMAN**

Displacement :	1,760 tons *standard* (2,540 tons *full load*)
Dimensions :	348 (*pp.*), 356½ (*o.a.*) × 35½ × 9 feet
Guns :	6—4·7 inch, 1—4 inch (in *Noble* only), 4—40 mm. AA., 6—20 mm. AA., 4—2 pdr. (except *Nepal*, 2—3 pdr. only)
Tubes :	10—21 inch (except *Nepal*, disarmed)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 36 kts.
Boilers :	2 Admiralty 3-drum type
Complement :	220

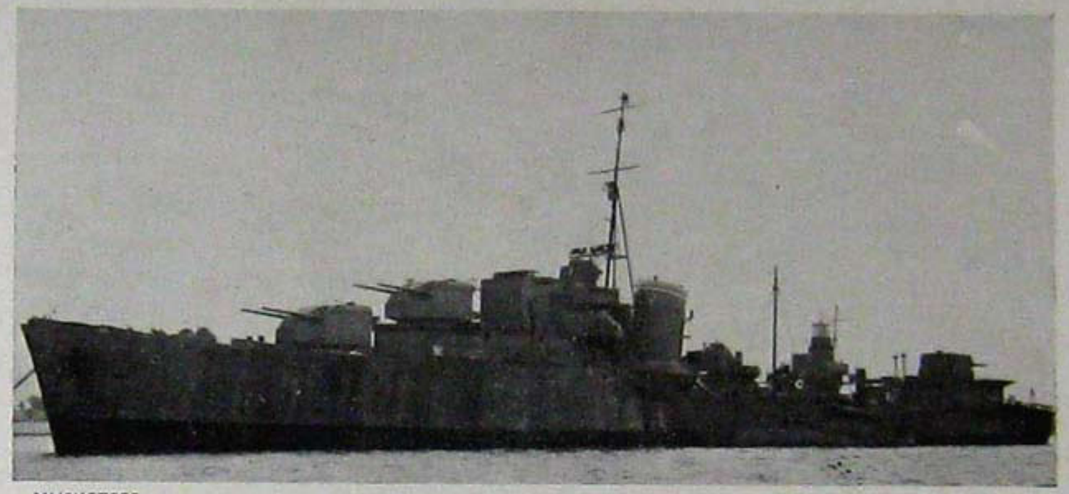
General Notes.—Ordered under 1938 Estimates. Original *Noble* and *Nonpareil* of this class were transferred to Royal Netherlands Navy in 1942 and sold outright in 1945. *Noble* (ex-*Nerissa*) served under Polish flag during war. War losses: *Nestor*.

Appearance Notes.—Most of this class now have lattice mast. Ships are distinguishable from destroyers of later classes by bigger funnel, more numerous ports, and wider-spread lattice masts. Guns in twin mountings in large open shields. Separate director and rangefinder.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Napier	Fairfield S.B. & Eng. Co., Ltd., Govan.	26 July 1939	22 May 1940	11 Dec. 1940
Nepal	John I. Thornycroft & Co., Ltd., Woolston.	9 Sep. 1939	4 Dec. 1941	29 May 1942
Nizam	John Brown & Co., Ltd., Clydebank	27 July 1939	4 July 1940	8 Jan. 1941
Norman	John Brown & Co., Ltd., Clydebank.	27 July 1939	30 Oct. 1940	29 Sep. 1941
Noble	John I. Thornycroft & Co., Ltd., Woolston.	26 July 1939	7 May 1940	4 Nov. 1940

5 " Milne " Class.

MARNE. *Added* 1951, *Wright & Logan.*



MUSKETEER. 1951, *P. A. Vicary.*

MARNE **MATCHLESS** **METEOR** **MILNE** (Leader) **MUSKETEER**

Displacement :	1,920 tons (*Milne*, 1,935 tons) *standard*, 2,840 tons *full load*
Dimensions :	354 (*pp.*), 362½ (*o.a.*) × 36½ × 10 (*mean*), 16½ (*max.*) feet
Guns :	6—4·7 inch, 1—4 inch, 4—2 pdr., 10—20 mm. AA. (*Marne*, *Matchless*, no 4-inch)
Tubes :	8—21 inch
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 48,000 = 36 kts. (sea speed 31 kts. at 43,200 S.H.P.)
Boilers :	2 Admiralty 3-drum type

General Notes.—Ordered under 1937 and 1939 Estimates. Individual ships vary in detail. Later units are insulated for service in high latitudes. *Musketeer* after refit at Belfast has become the coastal forces depot and living ship at Harwich. To be converted into fast aircraft direction frigates. War losses: *Mahratta*, *Martin* and Polish *Orrkan*, ex-*Myrmidon*.

Appearance Notes.—These were the first destroyers to have 3 power-worked turrets. They were handsome ships with single director and wide funnel.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Marne	Vickers-Armstrongs, Ltd. (Tyne)	23 Oct. 1939	30 Oct. 1940	2 Dec. 1941
Matchless	Alex. Stephen & Sons, Ltd., Govan	14 Sep. 1940	4 Sep. 1941	26 Feb. 1942
Meteor	Alex. Stephens & Sons, Ltd., Govan	14 Sep. 1940	3 Nov. 1941	12 Aug. 1942
Milne	Scotts S.B. & Eng. Co., Ltd., Greenock	24 Jan. 1940	30 Dec. 1941	6 Aug. 1942
Musketeer	Fairfield S.B. & Eng. Co., Ltd., Govan	7 Dec. 1939	2 Dec. 1941	18 Sep. 1942

Frigates.

15 *New Construction.*

24 frigates are being built under a new programme to be spread over three years, of which 17 have been ordered and 15 of these were begun during the 1951-52 and 1952-53 financial years.

"Scarborough" Class (*Anti-Submarine Type*) 1st Rate.

SCARBOROUGH **TORQUAY** **WHITBY**

Notes—The propelling machinery will include geared turbines.

Name	*Builders*	*Engineers*
Scarborough	Vickers-Armstrongs, Ltd., Tyne	Vickers-Armstrongs, Ltd., Barrow
Torquay	Harland & Wolff, Ltd., Belfast	Vickers-Armstrongs, Ltd., Barrow
Whitby	Cammell Laird & Co., Ltd., Birkenhead	Builders

"Blackwood" Class (*Anti-Submarine Type*) 2nd Rate.

BLACKWOOD **HARDY** **MURRAY**
DUNDAS **KEPPEL** **PELLEW**
GRAFTON

Notes.—The propelling machinery of *Hardy* and *Keppel* will include turbines of English Electric Co. design. *Dundas* scheduled for trials May 1954.

Name	*Builders*	*Engineers*
Blackwood		
Dundas	J. Samuel White & Co., Ltd., Cowes, Isle of Wight	
Grafton		
Hardy	Yarrow & Co., Ltd., Scotstown	Builders
Keppel	Yarrow & Co., Ltd., Scotstown	Builders
Murray	Alex. Stephenson & Co., Ltd., Govan	Builders
Pellew	Swan, Hunter & Wigham Richardson, Ltd., Wallsend	The Wallsend Slipway & Engineering Co., Ltd., Tyne

"Leopard" Class (*Anti-Aircraft Type*).

LEOPARD **LYNX** **PUMA**

Notes.—*Leopard* was to have been built at Devonport. *Puma* due for trials June 1954.

Name	*Builders*	*Engineers*	*Laid down*
Leopard	H.M. Dockyard, Portsmouth	British Polar Engines, Ltd., Glasgow	25 Mar. 1953
Lynx	John Brown & Co., Ltd., Clydebank	Vickers-Armstrongs, Ltd., Barrow	
Puma	Scott's Shipbuilding & Engineering Co., Ltd., Greenock		

"Salisbury" Class (*Aircraft Direction Type*).

CHICHESTER **SALISBURY**

Dimesnions :	340 (*o.a.*) × 40 × — feet
Guns :	2—4·5 inch, 2 smaller
Machinery :	Admiralty standard range diesel engines

General Notes.—*Salisbury*, the prototype ship, was originally to have been built at Portsmouth. Construction is all welded and largely prefabricated.

Engineering Notes.—*Leopard* and others are to have diesels (including Polar) built under licence. Officially announced that the allocation of machinery between the three ships under construction at Portsmouth, Devonport and Clydebank is provisional and may be subject to modification.

Name	*Builders*	*Engineers*	*Laid down*	*Launched*
Chichester	Fairfield S.B. & Eng. Co., Ltd., Govan	Fairfield		
Salisbury	H.M. Dockyard, Devonport	Peter Brotherhood, Ltd., Peterborough	23 Jan. 1952	25 June 1953

Fast Anti-Submarine Frigates.

7 "T" Class (*Limited Conversion from Destroyers*) 1st Rate.

TYRIAN. 1953, *Wright & Logan.*

TENACIOUS. 1952, *Wright & Logan.*

TEAZER **TERMAGANT** **TUMULT** **TYRIAN**
TENACIOUS **TERPSICHORE** **TUSCAN**

Displacement :	1,710 tons *standard* (2,510 tons *full load*)
Dimensions :	362½ (*o.a.*) × 35½ × 16 (*max.*) feet
Guns :	2—4 inch (twin mount), 7—40 mm. Bofors AA. (twin and singles)
Tubes :	4—21 inch (quadruple mount)
A/S Weapons	2 squids
Machinery :	Parsons geared turbines. S.H.P. : 40,000 = 34 kts.
Boilers :	2 Admiralty 3-drum type

Notes.—A simpler form of conversion from fleet destroyers which, without refinements, gives fast ships with good A/S qualities more rapidly than a full conversion of the "Relentless" and "Rocket" type. *Tenacious*, conversion of which was completed in 1952, was the first of these. Remaining ship and former leader of this class, *Troubridge*, is also to be refitted (limited conversion).

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Teazer	Cammell, Laird & Co., Ltd., Birkenhead	20 Oct. 1941	7 Jan. 1943	13 Sep. 1943
Tenacious	Cammell, Laird & Co., Ltd., Birkenhead	3 Dec. 1941	24 Mar. 1943	30 Oct. 1943
Termagant	Wm. Denny & Bros., Ltd., Dumbarton	25 Nov. 1941	22 Mar. 1943	18 Oct. 1943
Terpsichore	Wm. Denny & Bros., Ltd., Dumbarton	25 Nov. 1941	17 June 1943	20 Jan. 1944
Tumult	John Brown & Co., Ltd., Clydebank	16 Nov. 1941	9 Nov. 1942	2 Apr. 1943
Tuscan	Swan, Hunter & Wigham Richardson, Ltd.	6 Sep. 1941	28 May 1942	11 Mar. 1943
Tyrian	Swan, Hunter & Wigham Richardson, Ltd.	15 Oct. 1941	27 July 1942	8 Apr. 1943

Fast Anti-Submarine Frigates—*continued.*

1 "P" Class (*Limited Conversion from Destroyer*). *1st Rate.*

PALADIN

Builders :	John Brown & Co., Ltd., Clydebank
Laid down :	22 July 1940
Launched :	11 June 1941
Completed :	12 Dec. 1941
Displacement :	1,540 tons *standard* (2,315 tons *full load*)
Dimensions :	345 (*o.a.*) × 35 × 15¾ (*max.*) feet
Guns : / Tubes : / A/S weapons :	Similar to *Orwell*
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts.
Boilers :	2 Admiralty 3-drum type
Oil fuel :	500 tons
Complement :	175

Notes.—Formerly a destroyer employed as a submarine target ship. Converted into a fast anti-submarine frigate 1953. Sister ship *Petard* is also to be adapted as an A/S frigate (limited conversion).

1 "O" Class (*Limited Conversion from Destroyer*). *1st Rate.*

ORWELL. 1953, *Wright & Logan.*

ORWELL

Builders :	John I. Thornycroft & Co., Ltd., Woolston
Laid down :	20 May, 1940
Launched :	2 Apr., 1942
Completed :	17 Oct., 1942
Displacement :	1,540 tons standard (2,4000 tons *full load*)
Dimensions :	345 (*o.a.*) × 35 × 15¾ (*max.*) feet
Guns : / Tubes : / A/S weapons :	Similar to "T" Class
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts.
Boilers :	2 Admiralty 3-drum type

Notes.—Originally one of the first "Emergency" destroyers built under the War Programme. Converted into a fast anti-submarine frigate in 1952. Sister ships *Obdurate*, *Obedient* and *Opportune* will eventually also be converted into A/S frigates.

Fast Anti-Submarine Frigates—*continued.*

3 "W" Class (*Fully Converted from Destroyers*). *1st Rate.*

WAKEFUL. 1953, *A. & J. Pavia.*

WRANGLER. 1953, *Wright & Logan.*

	WAKEFUL (*ex-Zebra*)	**WHIRLWIND**	**WRANGLER**
Displacement :	1,710 tons *standard* (2,500 tons *full load*)		
Dimensions :	362½ × 35½ × 16 feet		
Guns : / Tubes : / A/S Weapons :	Similar to "R" Class		
Machinery :	Parsons geared turbines. S.H.P. : 40,000 = 33 kts.		
Boilers :	2 Admiralty 3-drum type		

Notes.—*Wrangler* was fully converted from a destroyer in 1951-52. *Wakeful* and *Whirlwind* were converted in 1952-1953.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Wakeful	Fairfield S.B. & Eng. Co., Ltd., Govan	3 June 1942	30 June 1943	17 Feb. 1944
Whirlwind	R. & W. Hawthorn, Leslie & Co. Ltd., Hebburn	31 July 1942	30 Aug. 1943	20 July 1944
Wrangler	Vickers-Armstrongs, Ltd., Barrow	23 Sep. 1942	30 Dec. 1943	14 July 1944

GREAT BRITAIN—1st Rate Frigates

5 "V" Class (*Fully Converted from Destroyers*). 1st Rate.

VERULAM. 1953, *A. & J. Pavia.*

VENUS **VERULAM** **VIGILANT** **VIRAGO** **VOLAGE**

Displacement :	1,710 tons *standard* (2,500 tons *full load*)
Dimensions :	362½ (*o.a.*) × 35½ × 16 (*max.*) feet
Guns : / Tubes : / A/S Weapons	Similar to "R" Class, but tubes not mounted
Machinery :	Parsons geared turbines, 2 shafts. S.H.P. : 40,000 = 34 kts.
Boilers :	2 Admiralty 3-drum type

Notes.—*Verulam* converted by H.M. Dockyard, Portsmouth. *Vigilant* by J. I. Thornycroft & Co., Ltd., Woolston, Southampton, *Volage* by J. Samuel White & Co., Ltd., Cowes 1952. *Volage* had her bow blown off by a mine explosion in the Corfu Channel in 1946, but was repaired at Malta and subsequently served in the Mediterranean Fleet until 1949. It has been officially stated that deckheads in these vessels were originally sprayed with an asbestos coating to insulate living spaces from cold in high latitudes. Of the original flotilla of eight "V" class destroyers two, the *Valentine* and *Vixen* were transferred to the Royal Canadian Navy and renamed. A third, the flotilla leader *Hardy*, built by Clydebank, was lost in the Second World War.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Venus	Fairfield S.B. & Eng. Co., Ltd., Govan	12 Jan. 1942	23 Feb. 1943	28Aug. 1943
Verulam	Fairfield, S.B. & Eng. Co., Ltd., Govan	26 Jan. 1942	22 Apr. 1943	10 Dec. 1943
Vigilant	Swan, Hunter & Wigham Richardson, Ltd.	31 Jan. 1942	22 Dec. 1942	10 Sep. 1943
Volage	J. Samuel White & Co., Ltd., Cowes	31 Dec. 1942	15 Dec. 1943	26 May 1944
Virago	Swan, Hunter & Wigham Richardson, Ltd.	16 Feb. 1942	4 Feb. 1943	5 Nov. 1943

6 "U" Class (*Fully Converted From Destroyers*). 1st Rate.

GRENVILLE **UNDAUNTED** **UNDINE** **URANIA** **URCHIN** **URSA**

Displacement :	1,710 tons *standard* (*Grenville* 1,730 tons), 2,500 tons *full load*)
Dimensions :	362½ × 35½ × 16 (*max.*) feet
Guns : / Tubes : / A/S Weapons :	Similar to "R" Class
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts.
Boilers :	2 Admiralty 3-drum type

Notes.—Four converted under contract at private shipbuilding yards, 1952-53, *Undaunted* by J. Samuel White & Co., Ltd., Cowes, Isle of Wight. *Uranio* and *Ursa* under cnonversion 1953-54.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Grenville	Swan, Hunter & Wigham Richardson, Ltd.	1 Nov. 1941	12 Oct. 1942	27 May 1943
Undaunted	Cammell, Laird & Co., Ltd., Birkenhead	8 Sep. 1942	19 July 1943	3 Mar. 1944
Undine	John I. Thornycroft & Co., Ltd., Woolston	18 Mar. 1943	1 June 1943	23 Dec. 1943
Urania	Vickers-Armstrongs, Ltd., Barrow	18 June 1942	19 May 1943	18 Jan. 1944
Urchin	Vickers-Armstrongs, Ltd., Barrow	26 Mar. 1942	8 Mar. 1943	24 Sep. 1943
Ursa	John I. Thornycroft & Co., Ltd., Woolston	2 May 1942	22 July 1943	1 Mar. 1944

Fast Anti-Submarine Frigates—*continued.*

4 "R" Class (*Fully Converted from Destroyers*). 1st Rate.

RELENTLESS. 1951, *Wright & Logan.*

ROCKET. 1951, *Abrahams.*

RAPID **RELENTLESS** **ROCKET** **ROEBUCK**

Displacement :	1,705 tons (original), 2,500 tons *full load*
Dimensions :	358½ × 35½ × 9½ (*mean*), 16 (*max.*) feet
Guns :	2—4 inch (twin mount), 2—40 mm. Bofors AA.
Tubes :	2—21 (fixed) single. Four torpedoes
A/S Weapons :	2-Ahead-projecting improved Squids (triple)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts. sea speed
Boilers :	2 Admiralty 3-drum type

General Notes.—*Relentless* and *Rocket*, former fleet destroyers, were converted to prototype fast frigates in 1947-51. Bridges, funnel, masts, superstructure, 4—4·7 inch guns in single mountings, 4—2 pdr. pompoms, 8—20 mm. AA. guns and 8—21 inch tubes in quadruple mountings, were removed entirely and ships stripped down to the bare hull. Forecastle deck was then extended aft, extensive use being made of aluminium to reduce top weight. New superstructure was built up, two short lattice masts stepped, short wide raked funnel erected, and two improved squids, arranged *en echleon*, mounted in after shelter deck. They have a completely new armament, and represent the new conception of a frigate submarine-killer. Conversion of *Relentless*, at H.M. Dockyard, Portsmouth, and *Rocket*, at H.M. Dockyard, Devonport, completed July 1951. *Rapid* and *Roebuck* similarly converted, 1952-53.

Appearance Notes.—*Rocket* has a pronounced knuckle or rubbing strake forward.

Name	*Original Builders*	*Laid down*	*Launched*	*Completed*
Rapid	Cammel, Laird & Co., Ltd., Birkenhead	16 June 1941	16 July 1942	20 Feb. 1943
Relentless	John Brown & Co., Ltd., Clydebank	20 June 1941	15 July 1942	30 Nov. 1942
Rocket	Scotts S.B. & Eng. Co., Ltd., Greenock	14 Mar. 1941	28 Oct. 1942	4 Aug. 1943
Roebuck	Scotts S.B. & Eng. Co., Ltd., Greenock	19 June 1941	10 Dec. 1942	10 June 1943

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Frigates (Ex-*Sloops*).

16 Later "Black Swan" Class.

ALACRITY. 1953, Wright & Logan.

1 *Cammel Laird*
CYGNET

2 *Chatham Dockyard*
MODESTE
NEREIDE

Denny
ALACRITY
CRANE
HIND
MERMAID
OPOSSUM
SNIPE
SPARROW

Stephen
AMETHYST
HART

3 *Thornycroft*
ACTAEON
MAGPIE
PEACOCK

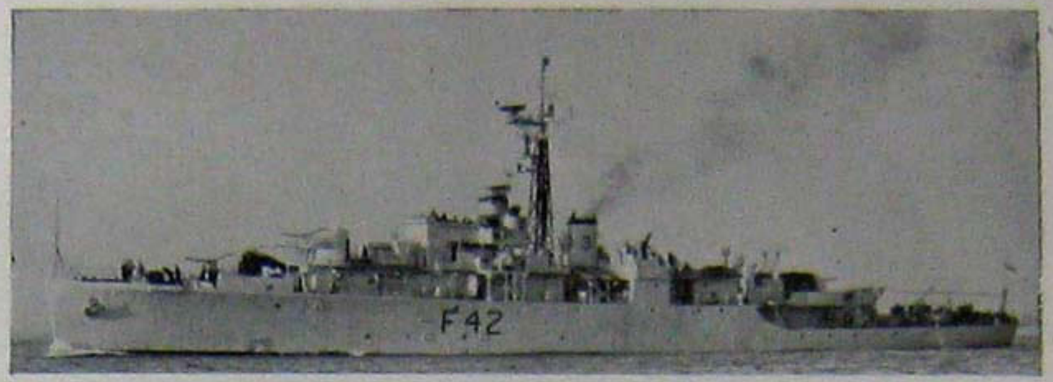
1 *Yarrow*
PHEASANT

Displacement :	1,430 to 1,490 tons *standard* (1,880 to 1,925 tons *full load*)
Dimensions:	299½ × 38½ × 8½ feet (11 feet *max.*)
Guns :	6—4 inch. 6—40 mm. AA.
A/S Weapons	Split hedgehog
Machinery:	Parsons geared turbines. 2 shafts. S.H.P. : 4,300 = 18½ kts.
Boilers :	2 of 3-drum type.
Complement:	192

General Notes.—Originally rated as sloops. Designed displacement was 1,350 tons with a speed of 20 kts. but a large amount of extra equipment was added as compared with the earlier "Black Swan" type, resulting in increased displacement and reduced speed. Fitted with Denny-Brown roll reducer. *Amethyst* damaged in action on Yangste 1949, refitted at Devonport Dockyard Nov.-July, and returned to Far East 1950. War losses: *Kite* (Cammell Laird), *Lapwing*, *Lark*, damaged beyond repair in Russia (both Scotts), *Chanticleer* (Denny). Cancelled ships: *Nonsuch*, *Nymphe*, *Partridge*, *Weatherhen*, *Wryneck*.

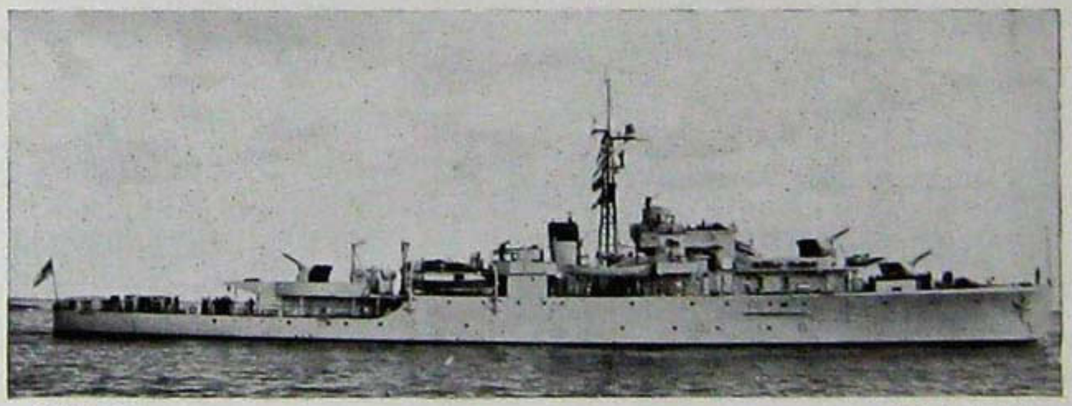
Appearance Notes.—Large mess deck escape ports (visible in photos of *Peacock* and *Modeste*). Ports are in both forward messdecks in all the ships of the class.

Name	*Laid down*	*Launched*	*Completed*
Actaeon	15 May 1944	25 July 1945	24 July 1946
Alacrity	5 Apr. 1943	1 Sep. 1944	13 Apr. 1945
Amethyst	25 Mar. 1942	7 May 1943	2 Nov. 1943
Crane	13 June 1941	9 Nov. 1942	10 May 1943
Cygnet	30 Aug. 1941	28 July 1942	1 Dec. 1942
Hart	27 Mar. 1942	7 July 1943	12 Dec. 1943
Hind	31 Aug. 1942	30 Sep. 1943	11 Apr. 1944
Magpie	30 Dec. 1941	24 Mar. 1943	30 Aug. 1943
Mermaid	8 Sep. 1942	11 Nov. 1943	1 May 1944
Modeste	15 Feb. 1943	29 Jan. 1944	3 Sep. 1945
Nereide	15 Feb. 1943	29 Jan. 1944	6 May 1946
Opossum	28 July 1943	30 Nov. 1944	16 June 1945
Peacock	29 Nov. 1942	11 Dec. 1943	10 May 1944
Pheasant	17 Mar. 1942	21 Dec. 1942	12 May 1943
Snipe	21 Sep. 1944	20 Dec. 1945	9 Sep. 1946
Sparrow	30 Nov. 1944	18 Feb. 1946	16 Dec. 1946



MODESTE. 1953, Wright & Logan.

CYGNET. 1951, J. W. Kennedy.



PEACOCK. 1951, A. & J. Pavia

19 " Bay " Class.

BIGBURY BAY. 1952, *J. W. Kennedy.*

1 Blyth S.B. Co.

CAWSAND BAY (ex-*Loch Roan*)

7 Harland & Wolff

ST. AUSTELL (ex-*Loch Lydoch*)
ST. BRIDE'S BAY (ex-*Loch Achilty*)
START BAY (ex-*Loch Arklet*)
TREMADOC BAY (ex-*Loch Arnish*)
WHITESAND BAY (ex-*Loch Lubnaig*)
WIDEMOUTH BAY (ex-*Loch Frisa*)
WIGTOWN BAY (ex-*Loch Garasdale*)

3 Charles Hill & Sons

BURGHEAD BAY (ex-*Loch Harport*)
PORLOCK BAY (ex-*Loch Seaforth* ; ex-*Loch Muick*)
VERYAN BAY (ex-*Loch Swannay*)

3 Pickersgill

LARGO BAY (ex-*Loch Fionn*)
MORECAMBE BAY (ex-*Loch Heilen*)
(completed by White)
MOUNTS BAY (ex-*Loch Kilbirnie*)
(completed by Thornycroft)

3 Robb

CARDIGAN BAY (ex-*Loch Laxford*)
CARNARVON BAY (ex-*Loch Maddy*)
PADSTOW BAY (ex-*Loch Coulside*)

1 Smith's Dock Co.

ENARD BAY (ex-*Loch Brocadale*)

1 Hall Russell

BIGBURY BAY (ex-*Loch Carloway*)

Displacement :	1,580 tons (2,400 tons *full load*)
Dimensions :	286 (*pp.*), 307½ (*o.a.*) × 38½ × 12¾ feet (15½ feet *max.*)
Guns :	4—4 inch, 6—40 mm. AA., 2—20 mm. AA.
A/S Weapons :	1 hedgehog. 4 D.C.T.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 19·5 kts.
Boilers :	2 Admiralty 3-drum type
Oil fuel :	724 tons
Complement :	157

Notes.—Designed primarily for AA. escort duties. Have shown excellent sea-keeping qualities in spite of considerable top weight carried, having ridden out China Sea typhoons. Four of this class were completed as surveying vessels, and two others refitted as despatch vessels, see later page. Cancelled ships : *Hollesley Bay* (ex-*Loch Fannich*), *Runswick Bay*.

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Bigbury Bay	30 May 1944	16 Nov. 1944	10 July 1945	*Porlock Bay*	22 Nov. 1944	14 June 1945	8 Mar. 1946
Burghead Bay	21 Sep. 1944	3 Mar. 1945	20 Sep. 1945	*St. Austell Bay*	30 May 1944	18 Nov. 1944	29 May 1945
Cardigan Bay	14 Apr. 1944	28 Dec. 1944	15 June 1945	*St. Bride's Bay*	30 May 1944	16 Jan. 1945	15 June 1945
Carnarvon Bay	8 June 1944	15 Mar. 1945	20 Sep. 1945	*Start Bay*	31 Aug. 1944	15 Feb. 1945	6 Sep. 1945
Cawsand Bay	24 Apr. 1944	26 Feb. 1945	13 Nov. 1945	*Tremadoc Bay*	31 Aug. 1944	29 Mar. 1945	11 Oct. 1945
Enard Bay	27 May 1944	31 Oct. 1944	4 Jan. 1946	*Veryan Bay*	8 June 1944	11 Nov. 1944	13 May 1945
Largo Bay	8 Feb. 1944	3 Oct. 1944	26 Jan. 1946	*Whitesand Bay*	8 Aug. 1944	16 Dec. 1944	30 July 1945
Morecambe Bay	30 Apr. 1944	1 Nov. 1944	22 Feb. 1949	*Widemouth Bay*	26 Apr. 1944	19 Oct. 1944	13 Apr. 1945
Mounts Bay	23 Oct. 1944	8 June 1945	11 Aug. 1949	*Wigtown Bay*	24 Oct. 1944	26 Apr. 1945	19 Jan. 1946
Padstow Bay	25 Sep. 1944	24 Aug. 1945	11 Mar. 1946				

General Note for " Loch-Bay " Type

" Bay " class and " Loch " class (see following page) were originally one class, but were subsequently sub-divided according to function, with differing armament. They could be refitted interchangeably as either anti-aircraft or anti-submarine vessels. Early units have " war finish ". Later units not so austere.

MOUNTS BAY 1951, *A. & J. Pavia.*

BURGHEAD BAY. 1950, *Wright & Logan.*

MORECAMBE BAY. 1949, *Photo.*

A/S Frigates.

19 " Loch " Class.

LOCH FYNE. 1952, *A. & J. Pavia.*

2 *Ailsa S.B. Co.*
LOCH TARBERT
LOCH VEYATIE

1 *Barclay Curle*
LOCH ALVIE

1 *Blyth S.B. Co.*
LOCH QUOICH

3 *Burntisland S.B. Co.*
LOCH FYNE
LOCH GLENDHU
LOCH KILLIN

4 *Caledon S.B. Co.*
LOCH ARKAIG
LOCH LOMOND
LOCH MORE
LOCH TRALAIG

1 *Clydebank*
LOCH FADA

3 *Harland & Wolff*
LOCH CRAGGIE
LOCH GORM
(both completed at Clydebank)
LOCH KILLISPORT

3 *Charles Hill & Sons*
LOCH DUNVEGAN
LOCH RUTHVEN
LOCH SCAVAIG

1 *Robb*
LOCH INSH

Displacement :	1,435 tons (2,260 tons *full load*)
Dimensions :	286 (*pp.*), 307 (*o.a.*) × 38½ × 12 feet, 14½ feet (*max.*)
Guns :	1—4 inch, 4—2 pdr. pompoms, 4—40 mm. AA., (see Gunnery Notes)
A/S Weapons :	2 squids, 2 D.C.T.
Machinery :	Triple expansion. 2 shafts, I.H.P. : 5,500 = 19·5 kts. (*Loch Arkaig* and *Loch Tralaig* have double-reduction geared turbines)
Boilers :	2 Admiralty 3-drum type
Oil fuel :	724 tons
Complement :	103

General Notes.—Designed primarily for anti-submarine escort duties. Two of this class, the *Loch Assynt* and *Loch Torridon*, were converted into depot and repair ships and renamed *Derby Haven* (since transferred to Persia) and *Woodbridge Haven*, respectively. Three are in S. African N. and six in R.N.Z.N. Cancelled names were *Loch Affric, Loch Awe, Loch Badcall, Loch Caroy, Loch Clunie, Loch Creran, Loch Doine, Loch Earn, Loch Enoch, Loch Ericht, Loch Erisort, Loch Eye, Loch Eyenort, Loch Garve, Loch Glashan, Loch Goil, Lock Griam, Loch Harray, Loch Hourn, Loch Inchard, Loch Ken, Loch Kirbister, Loch Kirkaig, Loch Kishorn, Loch Knockie, Loch Lano, Loch Linfern, Loch Linnhe, Loch Lurgan, Loch Lyon, Loch Maberry, Loch Minnick, Loch Nell, Loch Odairn, Loch Ossain, Loch Ronald, Loch Ryan Loch Scrivain, Loch Sheallag, Loch Shell, Loch Skaig, Loch Skerrow, Loch Stemster, Loch Stenness, Loch Striven, Loch Sunart, Loch Swin Loch Tanna, Loch Tilt, Loch Tummell, Loch Urigill, Loch Vanavie, Loch Vennacher, Loch Watten.*

Gunnery Notes.—*Loch Ruthven* now mounts a new type twin 4-inch gun forward in "A" position and 6—40 mm.—two aft, two abaft funnel, two on bridge wings (and has two small platforms on the foremast either side at bridge top level). *Loch Alvie* and *Loch Fada* refitted similarly.

Name	*Laid down*	*Launched*	*Completed*
Loch Alvie	31 Aug. 1943	14 Apr. 1944	21 Aug. 1944
Loch Arkaig	1 Nov. 1944	7 June 1945	17 Nov. 1945
Loch Craggie	28 Dec. 1943	23 May 1944	23 Oct. 1944
Loch Dunvegan	29 Sep. 1943	25 Mar. 1944	30 June 1944
Loch Fada	8 June 1943	14 Dec. 1943	10 Apr. 1944
Loch Fyne	8 Dec. 1943	24 May 1944	9 Nov. 1944
Loch Glendhu	29 May 1944	18 Oct. 1944	23 Feb. 1945
Loch Gorm	28 Dec. 1943	8 June 1944	18 Dec. 1944
Loch Insh	17 Nov. 1943	10 May 1944	20 Oct. 1944
Loch Killin	22 June 1943	29 Nov. 1943	12 Apr. 1944
Loch Killisport	28 Dec. 1943	6 July 1944	9 July 1945
Loch Lomond	7 Dec. 1943	19 June 1944	16 Nov. 1944
Loch More	16 Mar. 1944	3 Oct. 1944	24 Feb. 1945
Loch Quoich	3 Dec. 1943	2 Sep. 1944	11 Jan. 1945
Loch Ruthven	4 Jan. 1944	3 June 1944	6 Oct. 1944
Loch Scavaig	31 Mar. 1944	9 Sep. 1944	22 Dec. 1944
Loch Tarbert	30 Nov. 1943	19 Oct. 1944	22 Feb. 1945
Loch Tralaig	26 June 1944	12 Feb. 1945	4 July 1945
Loch Veyatie	30 Mar. 1944	8 Oct. 1945	13 July 1946

LOCH RUTHVEN (twin 4-inch in "A" position, squid in " B "). 1953, *Wright & Logan.*

LOCH LOMOND. 1951, *Wright & Logan.*

LOCH MORE. 1951, *A. & J. Pavia.*

Frigates.

26 "River" Class.

HELMSDALE. Added 1953, J. W. Kennedy.

3 *Blyth S.B. Co.*
BALLINDERRY
DART
RIBBLE (ex-*Duddon*)

1 *Geo. Brown & Co.*
CHELMER

2 *Fleming & Ferguson*
DOVEY (ex-*Lambourn*)
EXE

5 *Hall, Russell & Co.*
HELFORD
LOCHY
TEES
TEST (ex-*Neza*, ex-*Test*)
TEVIOT

3 *Charles Hill & Sons*
JED
TAFF
TAVY

2 *A. & J. Inglis, Ltd.*
HELMSDALE
KALE

3 *Henry Robb, Ltd.*
DERG
NESS
WYE

7 *Smith's Dock Co., Ltd.*
NENE
ODZANI
ROTHER
SWALE
TAY
TOWY
WEAR

Displacement:	1,370 to 1,490 tons *standard* (1,920 to 2,216 tons *full load*)
Dimensions:	283 (pp.), 301½ (o.a.) × 36½ × 14 feet
Guns:	2—4 inch, 10—20 mm. AA.
A/S Weapons:	1 hedgehog, 4 D.C.T. (*Helmsdale*, 2 squids)
Machinery:	Triple expansion. 2 shafts. I.H.P.: 5,500 = 20 kts. (sea speed 18 kts.) Geared turbines in *Chelmer*, *Helmsdale*
Boilers:	2 Admiralty 3-drum type
Oil fuel:	440 tons
Complement:	140

General Notes.—These ships have shown very good endurance and sea-keeping qualities. In several, 20 mm. have been replaced by 40 mm. guns. *Helmsdale* (Training and Experimental, Special Complement) no longer has guns; *Ribble* transferred to Royal Netherlands Navy; *Annan* and *Monnow* to Royal Danish Navy; *Braid*, *Frome*, *Moyola*, *Strule*, *Torridge*, *Windrush* to French Navy; *Avon*, *Awe* to Portuguese Navy; *Nith*, *Spey*, *Usk* to Royal Egyptian Navy; *Bann*, *Trent* to Indian Navy; *Deveron*, *Nadder* to Royal Pakistan Navy; and *Fal* to Burmese Navy. Second World War losses: *Itchen*, *Mourne*, *Tweed*. Scrapped as result of heavy damage: *Cam*, *Cuckmere*, *Logan*, *Teme*. Wrecked: *Aire*. Discarded: *Ettrick*, *Halladale**. Now rated as Landing Ship Headquarters, Small: *Meon*, *Waveney* (see later page).

Appearance Notes.—In many, port wing bridge plated in. Fan aerial on bridge. Experimental *Helmsdale* no longer has guns.

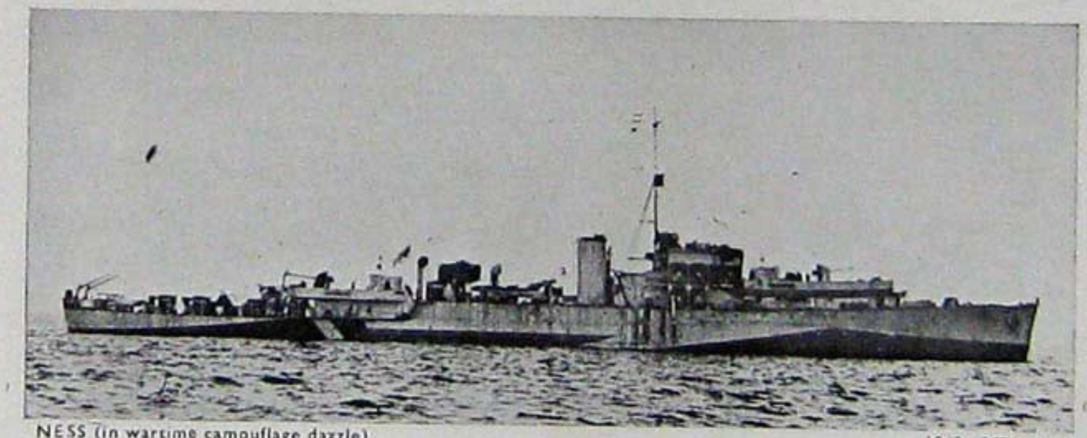
Name	*Laid down*	*Launched*	*Completed*
Ballinderry	6 Nov. 1941	7 Dec. 1942	2 Sep. 1943
Chelmer	29 Dec. 1941	27 Mar. 1943	29 Sep. 1943
Dart	8 Sep. 1941	10 Oct. 1942	15 May 1943
Derg	16 Apr. 1942	7 Jan. 1943	10 June 1943
Dovey	23 Mar. 1943	14 Oct. 1943	25 Feb. 1944
Exe	16 May 1941	19 Mar. 1942	6 Aug. 1942
Helford	27 June 1942	6 Feb. 1943	26 June 1943
Helmsdale	13 Aug. 1942	5 June 1943	15 Oct. 1943
Jed	27 Sep. 1941	30 July 1942	30 Nov. 1942
Kale	22 Sep. 1941	24 June 1942	4 Dec. 1942
Lochy	23 Feb. 1943	30 Oct. 1943	8 Feb. 1944
Nene	20 June 1942	9 Dec. 1942	8 Apr. 1943
Ness	3 Sep 1941	30 July 1942	27 Dec. 1942

Name	*Laid down*	*Launched*	*Completed*
Odzani	18 Nov. 1942	19 May 1943	2 Sep. 1943
Ribble	31 Dec. 1942	10 Nov. 1943	4 Aug. 1944
Rother	26 June 1941	20 Nov. 1941	3 Apr. 1942
Swale	19 Aug. 1941	16 Jan. 1942	24 June 1942
Taff	14 Apr. 1943	11 Sep. 1943	7 Jan. 1944
Tay	10 Sep. 1941	18 Mar. 1942	5 Aug. 1942
Tavy	17 Oct. 1942	3 Apr. 1943	3 July 1943
Tees	21 Oct. 1942	20 May 1943	28 Aug. 1943
Test	15 Aug. 1941	30 May 1942	12 Oct. 1942
Teviot	4 Oct. 1941	12 Oct. 1942	30 Jan. 1943
Towy	3 Sep. 1942	4 Mar. 1943	10 June 1943
Wear	16 Oct. 1941	1 June 1942	24 Oct. 1942
Wye	10 Nov. 1942	16 Aug. 1943	9 Feb. 1944

Plym was expended (completely vaporised) when Britain's first atomic bomb was exploded in her at Monte Bello Islands, off north-west Australia, 3 Oct., 1952.

WEAR. Added 1951, Wright & Logan.

NESS (in peacetime reserve). 1951, *P. A. Vicary.*



NESS (in wartime camouflage dazzle). 1942, *Official.*

Despatch Vessels.

2 Modified "Loch-Bay" Type.

SURPRISE (as temporary Royal Yacht for Coronation Naval Review, with guns removed). 1953, *Wright & Logan.*

SURPRISE (as Despatch Vessel/Frigate for Commander-in-Chief, Mediterranean, with twin 4-inch forward) 1951, *A. & J. Pavia.*

ALERT (ex-*Dundrum Bay*; ex- *Loch Scamadale*). **SURPRISE** (ex-*Gerrans Bay*; ex-*Loch Carron*)

Displacement:	1,590 tons *standard* (2,440 tons *full load*)
Dimensions:	286 (*pp.*), 307½ (*o.a.*) × 38½ × 12¼ feet, 15 feet (*max.*)
Guns:	2—4 inch, 2—40 mm., 4—3 pdr.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 5,500 = 19·5 kts.
Boilers:	2 Admiralty 3-drum type
Oil fuel:	720 tons

Notes.—Originally frigates of "Loch" class, these ships were to have been completed as units of "Bay" class, but were modified with reduced armament and extra accommodation to serve as Despatch Vessels or Commanders-in-Chief's "yachts" on China and Mediterranean Stations, respectively.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Alert	Blyth Dry Docks & S.B. Co., Ltd.	28 July 1944	10 July 1945	24 Oct. 1946
Surprise	Smith's Dock Co., Ltd., South Bank-on-Tees	21 Apr. 1944	14 Mar. 1945	9 Sept. 1946

Coronation Naval Review

Surprise was refitted as a temporary Royal Yacht for the Coronation Naval Review at Spithead on 15 June 1953, the twin 4 inch gun mounting in "B" position being removed to provide an inspecting platform dais for Her Majesty The Queen.

Experimental Gas-Turbine Vessel.

1 "Captain" Class.

Special Note.—This ship was allocated for gas-turbine experiments and was the first major warship and the first vessel at all of the size for which gas-turbines have been manufactured.

HOTHAM. *Added 1951, A. & J. Pavia.*

HOTHAM

Builders:	Bethlehem-Hingham Shipyard
Laid down:	5 Nov. 1943
Launched:	22 Dec. 1943
Completed:	8 Feb. 1944 (date turned over to U.K.)

Displacement:	1,300 tons (1,840 tons *full load*)
Dimensions:	300 (*w.l.*), 306 (*o.a.*) × 36½ × 14 feet
Guns:	4—20 mm. AA.
Machinery:	Gas turbine propulsion unit (see *Engineering Notes* and *Experimental Notes*)
Oil fuel:	335 tons
Complement:	220

Generrl Notes.—This ship was a counterpart of the United States destroyer-escorts of the "Buckley" type except that she had no torpedo tubes. Pre-fabricated and entirely welded. Originally there were no openings in sides but scuttles were subsequently provided. Sole survivor of this class in Royal Navy, six having been lost and 39 returned to the U.S.A. for scrapping. This ship was stripped of armament and most internal fittings in early 1945 and adapted as a floating power station for Singapore. On the recapture of that port the need for her did not arise, and she went to Hong Kong where she acted as port guardship. She subsequently returned to Singapore where she fulfilled her original purpose. She returned to the United Kingdom after the war. She has since been in dockyard hands for the installation of gas-turbine plant and limited reconstruction.

Engineering Notes.—Original propelling machinery comprised geared steam turbines with electric drive turning two shafts. S.H.P.: 12,000 = 24 kts. New gas turbine machinery for the ship was built in 1951. This English Electric propulsion unit of 6,000 H.P. was to have been installed in 1952.

Experimental Notes.—It is unofficially reported that work on this ship is at present suspended. The Admiralty's 6,000 H.P. marine gas turbine EL 60A, will not undergo tests in the frigate *Hotham* as planned, because more advanced gas turbines are available.

A.A. Frigates (Ex-*Escort Destroyers*).

39 " Hunt " Group.

General Note for " Hunt " Group.—Designed for escort duties. A grand total of 86 ships of the four classes were built. War losses and transfers to the Royal Danish, Egyptian, Royal Hellenic, Indian and Royal Norwegian navies are detailed under the respective types. Others have been scrapped.

2 " Brecon " Class (Type IV).

BRISSENDEN. 1947, *London Studio.*

BRECON **BRISSENDEN**

Displacement	1,175 tons (1,770 tons *full load*)
Dimensions :	296 × 33½ × 9 feet (13½ feet (*max.*)
Guns :	*Brissenden*, 6—4 inch AA., 4—2 pdr., 8—20 mm. AA.
	Brecon, 6—4 inch AA., 4—2 pdr., 2—40 mm. AA., 2—20 mm. AA.
Tubes :	3—21 inch
A/S Weapons:	4 D.C.T.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 19,000 = 25 kts.
Boilers :	2 Admiralty 3-drum type
Complement	170

Note.—A particularly handsome and successful type. Designed for Arctic service, with double deck fore and aft, and extra beam. No war losses, only two of this class having been built.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Brecon	John I. Thornycroft & Co., Ltd., Woolston, Southampton	27 Feb. 1941	27 June 1942	18 Dec. 1942
Brissenden		28 Feb. 1941	15 Sep. 1942	12 Feb. 1943

" Hunt " Group—*continued.*

8 " Albrighton " Class (Type III).

MELBREAK. 1953, *Wright & Logan.*

BLEASDALE. 1950, *Wright & Logan.*

ALBRIGHTON **BLEASDALE** **HAYDON** **STEVENSTONE**
BELVOIR **EGGESFORD** **MELBREAK** **TALYBONT**

Displacement :	1,087 tons (1,620 tons *full load*)
Dimensions :	264½ (*pp*), 280 (*o.a.*) × 31½ × 7¾ (*mean* feet)
Guns :	4—4 inch AA., 4—2 pdr. pompom, 2—20 or 40 mm. AA.
Tubes :	2—21 inch
Machinery:	Parsons geared turbines. 2 shafts. S.H.P. : 19,000 = 26 kts.
Boilers :	2 Admiralty 3-drum type
Oil fuel :	280 tons
Complement :	168

Notes.—28 of this class built. War losses: *Airdale*, *Aldenham*, *Blean*, Norwegian *Eskdale*, French *La Combattante* (ex-*Haldon*), *Holcombe* (*L* 56), *Limbourne* (*L* 57), *Penylan* (*L* 89). Taken over by Greece, *Bolebroke*, *Border*, *Hatherleigh*, *Modbury*, *Tanatside* ; by Norway, *Glaisdale*. Others scrapped.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Albrighton	John Brown & Co., Ltd., Clydebank	30 Dec. 1940	11 Oct. 1941	22 Feb. 1942
Belvoir	Cammell, Laird & Co., Ltd., Birkenhead	14 Oct. 1940	18 Nov. 1941	29 Mar. 1942
Bleasdale	Vickers-Armstrongs, Ltd., Tyne	31 Oct. 1940	23 July 1941	16 Apr. 1942
Eggesford	J. Samuel White & Co., Ltd., Cowes	23 June 1941	12 Sep. 1942	21 Jan. 1943
Haydon	Vickers-Armstrongs, Ltd., Tyne	1 May 1941	2 Apr. 1942	24 Oct. 1942
Melbreak	Swan, Hunter & Wigham Richardson, Ltd.,	23 June 1941	5 Mar. 1942	10 Oct. 1942
Stevenstone	J. Samuel White & Co., Ltd., Cowes	2 Sep. 1941	23 Nov. 1942	18 Mar. 1943
Talybont	J. Samuel White & Co., Ltd., Cowes	28 Nov. 1941	3 Feb. 1943	19 May 1943

"Hunt" Group—*continued.*

13 "Blankney" Class (Type II).

BICESTER. 1951. Wright & Logan.

2 *Clydebank*
AVON VALE
BLANKNEY

1 *Hawthorn*
BICESTER

1 *Scotts*
COWDRAY

1 *Stephen*
CROOME

1 *Swan Hunter*
FARNDALE

1 *Thornycroft*
LEDBURY

1 *Vickers-Armstrongs (Tyne)*
MIDDLETON

2 *White*
SILVERTON (ex-Krakowiak, ex-Silverton)
TETCOTT

3 *Yarrow*
OAKLEY (ex-Tickham)
WHEATLAND
WILTON

Displacement:	1,050 tons (1,610 tons *full load*)
Dimensions:	264½ (pp.), 280 (o.a.) × 31½ × 7¾ (mean) 14 (max.) feet.
Guns:	6—4 inch AA., 4—2 pdr. pompom, 2 to 4—20mm. AA.
Tubes:	None.
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 19,000=25 kts.
Boilers:	2 Admiralty 3-drum type
Oil fuel:	280 tons
Complement:	146

Notes.—A total of 33 of this class were built. War losses: *Dulverton, Grove, Heythrop, Hurworth,* Polish *Kujawiak (ex-Oakley 1), Puckeridge, Southwold.* Taken over by Greece, *Bramham, Hursley, Lauderdale.* Late in 1952 *Blackmore, Exmoor,* and *Calpe* lent to Denmark; and *Beaufort* and *Zetland* lent to Norway for four years. *Bedale, Chiddingfold* and *Lamerton* lent to Indian Navy for three years (announced 27 Oct. 1952) subject to extension by agreement, the vessels to be returned on request in an emergency. Others scrapped.

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Avon Vale	12 Feb. 1940	23 Oct. 1940	17 Feb. 1941	*Ledbury*	24 Jan. 1940	27 Sep. 1941	11 Feb. 1942
Bicester	29 May 1940	5 Sep. 1941	18 June 1942	*Middleton*	10 Apr. 1940	12 May 1941	10 Jan. 1942
Blankney	17 May 1940	19 Dec. 1940	11 Apr. 1941	*Oakley*	19 Aug. 1940	15 Jan. 1942	7 May 1942
Cowdray	30 Apr. 1940	22 July 1941	29 July 1942	*Silverton*	5 Dec. 1939	4 Dec. 1940	28 May 1941
Croome	7 June 1940	30 Jan. 1941	29 June 1941	*Tetcott*	29 July 1940	12 Aug. 1941	11 Dec. 1941
Farndale	21 Nov. 1939	30 Sep. 1940	27 Apr. 1941	*Wheatland*	30 May 1940	7 June 1941	3 Nov. 1941
				Wilton	7 June 1941	17 Oct. 1941	18 Feb. 1942

"Hunt" Group—*continued.*

16 "Atherstone" Class (Type I).

BROCKLESBY. 1953. J. W. Kennedy.

3 *Cammel Laird*
ATHERSTONE
BLENCATHRA
BROCKLESBY

2 *Clydebank*
FERNIE
GARTH

2 *Scotts*
PYTCHLEY
QUANTOCK

1 *Stephen*
WHADDON

3 *Swan Hunter*
HAMBLEDON
HOLDERNESS
MEYNELL

1 *Vickers-Armstrongs (Tyne)*
EGLINTON

1 *White*
SOUTHDOWN

3 *Yarrow*
CATTISTOCK
CLEVELAND
COTSWOLD

Displacement:	1,000 tons *standard* (1,490 tons *full load*)
Dimensions:	272½ (pp.), 280 (o.a.) × 29 × 7¼ feet
Guns:	4—4 inch AA., 2—20 mm. AA. (some have 4—2 pdr. besides)
Tubes:	None
Machinery:	Parsons geared turbines (by Wallsend Slipway in Swan Hunter units). 2 shafts. S.H.P.: 19,000=25 kts.
Boilers:	2 Admiralty 3-drum type
Complement:	146

Notes.—A total of 23 of this class were built. *Brocklesby* is in commission at Portland for Asdic Training and trials. She is disarmed and has a deckhouse aft joining the after superstructure (formerly a pompom platform) almost to the funnel. *Blencathra, Fernie, Meynell, Pytchley, Quantock, Southdown,* are disarmed as air target ships. *Mendip,* transferred to Chinese Navy in May, 1948, was returned to the Royal Navy a year later, but transferred to Egypt in 1949. *Cottesmore* was also transferred to Egypt in 1951 *Liddesdale* was discarded. War losses: *Berkeley, Exmoor, Quorn, Tynedale.*

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Atherstone	8 June 1939	12 Dec. 1939	23 Mar. 1940	*Garth*	8 June 1939	14 Feb. 1940	1 July 1940
Blencathra	18 Nov. 1939	6 Aug. 1940	14 Dec. 1940	*Hambledon*	8 June 1939	12 Dec. 1939	8 June 1940
Brocklesby	18 Nov. 1939	30 Sep. 1940	9 Apr. 1941	*Holderness*	29 June 1939	8 Feb. 1940	10 Aug. 1940
Cattistock	9 June 1939	22 Feb. 1940	1 Aug. 1940	*Meynell*	10 Aug. 1939	7 June 1940	30 Dec. 1940
Cleveland	7 July 1939	24 Apr. 1940	18 Sep. 1940	*Pytchely*	26 July 1939	13 Feb. 1940	23 Oct. 1940
Cotswold	11 Oct. 1939	18 July 1940	16 Nov. 1940	*Quantock*	26 July 1939	22 Apr. 1940	6 Feb. 1941
Eglinton	8 June 1939	28 Dec. 1939	28 Aug. 1940	*Southdown*	22 Aug. 1939	5 July 1940	8 Nov. 1940
Fernie	8 June 1939	9 Jan. 1940	29 May 1940	*Whaddon*	27 July 1939	16 July 1940	28 Feb. 1941

A/S Frigates (ex-*Corvettes*).

24 "Castle" Class.

1 *Ailsa S.B. Co.*
TINTAGEL CASTLE

1 *S. P. Austin & Son, Ltd.*
AMBERLEY CASTLE

1 *Barclay Curle*
BERKELEY CASTLE

2 *Blyth S.B. Co.*
KNARESBOROUGH CASTLE
LAUNCESTON CASTLE

1 *Geo. Brown & Co.*
ALNWICK CASTLE

2 *Caledon S.B. Co.*
CARISBROOKE CASTLE
DUMBARTON CASTLE

2 *John Crown & Sons*
FARNHAM CASTLE
HEDINGHAM CASTLE (ex-*Gorey Castle*)

2 *Fleming & Ferguson*
ALLINGTON CASTLE (ex-*Amaryllis*)
LANCASTER CASTLE

2 *Harland & Wolff*
OXFORD CASTLE
PEVENSEY CASTLE

1 *A. & J. Inglis, Ltd.*
OAKHAM CASTLE

2 *John Lewis & Sons*
BAMBOROUGH CASTLE
CAISTOR CASTLE

2 *Wm. Pickersgill & Sons*
LEEDS CASTLE
MORPETH CASTLE

1 *Henry Robb, Ltd.*
FLINT CASTLE

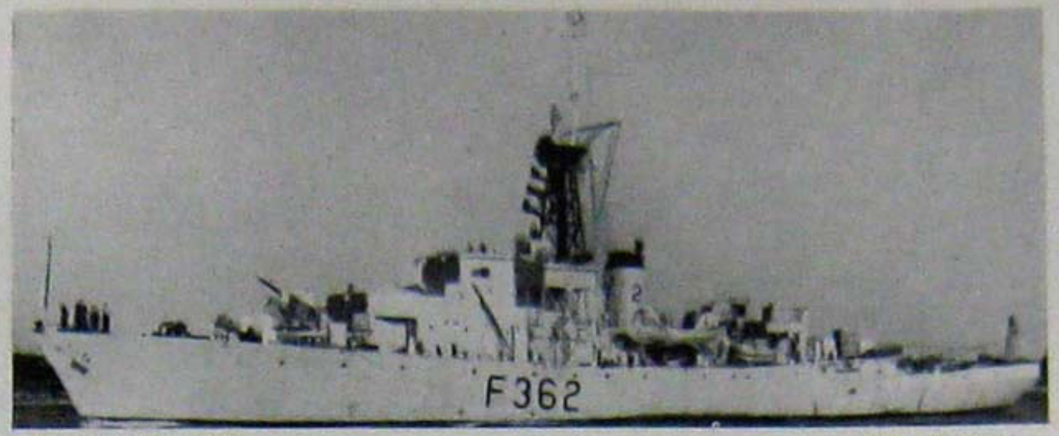
2 *Smith's Dock Co., Ltd.*
HADLEIGH CASTLE
KENILWORTH CASTLE

2 *Swan Hunter*
PORTCHESTER CASTLE
RUSHEN CASTLE

Displacement:	1,060 to 1,100 tons (1,580 tons *full load*)
Dimensions:	225 (pp.), 252 (o.a.) × 36½ × 13½ (mean), 15½ (max.) feet.
Guns:	1—4 inch, 2—40 mm. AA., 2—20 mm. AA.
A/S Weapons:	1 squid, 2 D.C.T.
Machinery:	Triple expansion, I.H.P.: 2,880 = 16·5 kts. (designed *max.*)
Boilers:	2 Admiralty 3-drum type
Oil fuel:	480 tons

Notes.—Smith's Dock Co., Ltd., were largely responsible for design of these ships, which represented a very definite improvement on the "Flower" type. *Shrewsbury Castle* transferred to Royal Norwegian Navy and lost. Twelve more turned over to Royal Canadian Navy. War losses: *Denbigh Castle*, *Hurst Castle* (Caledon). *Maiden Castle*, *Scarborough Castle*, *Rayleigh Castle*, *York Castle*, were completed as Rescue Ships *Empire Lifeguard*, *Empire Peacemaker*, *Empire Rest* and *Empire Comfort* respectively. Others either cancelled, or not completed as warships, were *Alton Castle*, *Appleby Castle*, *Aydon Castle*, *Barnard Castle*, *Barnwell Castle*, *Beeston Castle*, *Bere Castle*, *Bodiam Castle*, *Bolton Castle*, *Bowes Castle*, *Bramber Castle*, *Bridgnorth Castle*, *Brough Castle*, *Caldecot Castle*, *Calshot Castle*, *Canterbury Castle*, *Carew Castle*, *Chepstow Castle*, *Chester Castle* (Collingwood Shipyards); *Christchurch Castle*, *Clare Castle*, *Clavering Castle*, *Clitheroe Castle*, *Clun Castle*, *Colchester Castle*, *Corfe Castle*, *Cornet Castle*, *Cowes Castle*, *Cowling Castle*, *Criccieth Castle*, *Cromer Castle*, *Devizes Castle*, *Dover Castle*, *Dudley Castle*, *Dunster Castle*, *Egremont Castle*, *Fotheringay Castle*, *Helmsley Castle*, *Malling Castle*, *Malmesbury Castle*, *Monmouth Castle*, *Norwich Castle*, *Oswestry Castle*, *Pendennis Castle*, *Roby Castle*, *Rhuddlan Castle*, *Thornbury Castle* (ordered from Ferguson Bros.), *Tonbridge Castle*, *Trematon Castle*, *Tutbury Castle*, *Warkworth Castle*, *Wigmore Castle*. One of these, built by George Brown & Co., became Rescue Ship *Empire Shelter*.

Name	*Laid down*	*Launched*	*Completed*
Allington Castle	22 July 1943	29 Feb. 1944	19 June 1944
Alnwick Castle	12 June 1943	23 May 1944	11 Nov. 1944
Amberley Castle	31 May 1943	27 Nov. 1943	24 Nov. 1944
Bamborough Castle	1 July 1943	11 Jan. 1944	30 May 1944
Berkeley Castle	23 Apr. 1943	19 Aug. 1943	18 Nov. 1943
Caistor Castle	26 Aug. 1943	22 May 1944	29 Sept. 1944
Carisbrooke Castle	12 Mar. 1943	31 July 1943	17 Nov. 1943
Dumbarton Castle	6 May 1943	28 Sept. 1943	25 Feb. 1944
Farnham Castle	25 June 1943	25 Apr. 1944	31 Jan. 1945
Flint Castle	20 Apr. 1943	1 Sept. 1943	31 Dec. 1943
Hadleigh Castle	4 Apr. 1943	21 June 1943	18 Sept. 1943
Hedingham Castle	2 Nov. 1943	30 Oct. 1944	12 May 1945
Kenilworth Castle	7 May 1943	17 Aug. 1943	22 Nov. 1943
Knaresborough Castle	22 Apr. 1943	28 Sept. 1943	5 Apr. 1944
Lancaster Castle	10 Sept. 1943	14 Apr. 1944	15 Sept. 1944
Launceston Castle	27 May 1943	27 Nov. 1943	20 June 1944
Leeds Castle	22 Apr. 1943	12 Oct. 1943	15 Feb. 1944
Morpeth Castle	23 June 1943	26 Nov. 1943	13 July 1944
Oakham Castle	30 Nov. 1943	20 July 1944	10 Dec. 1944
Oxford Castle	21 June 1943	11 Dec. 1943	10 Mar. 1944
Pevensey Castle	21 June 1943	11 Jan. 1944	10 June 1944
Portchester Castle	17 Mar. 1943	21 June 1943	8 Nov. 1943
Rushen Castle	8 Apr. 1943	16 July 1943	24 Feb. 1944
Tintagel Castle	29 Apr. 1943	13 Dec. 1943	7 Apr. 1944



PORTCHESTER CASTLE. 1953, *J. W. Kennedy.*

FLINT CASTLE. 1951, *J. W. Kennedy.*

HEDINGHAM CASTLE. 1950.

Frigates (Ex-*Sloops*).
5 "Black Swan" Class.

WILD GOOSE. 1951, *A. & J. Pavia.*

WREN. *Added 1951.*

	BLACK SWAN	FLAMINGO	WILD GOOSE	WOODCOCK	WREN
Displacement :	1,470 tons *standard* (1,925 tons *full load*)				
Dimensions:	299½ × 37½ × 8½ feet (11 feet *max.*)				
Guns:	6—4 inch, 4—40 mm. Some have 2—3 pdr.				
A.S. Weapons :	Hedgehog				
Machinery :	Geared turbines. 2 shafts. S.H.P. : 4,300 = 18 kts.				
Boilers:	2, of 3-drum type				
Complement:	180				

General Notes.—Designed for displacement of 1,300 tons and speed of 19·25 kts. This class has proved most successful in service. *Black Swan, Flamingo*, built under 1937 Estimates. *Redpole* and *Starling* of this class were disarmed for employment as navigational training ships and will be found on following page. *Erne* was converted and reconstructed as stationary drillship for Solent Division R.N.V.R. in 1952 (renamed *Wessex*), *Whimbrel* was transferred to the Egyptian Navy. War losses: *Ibis, Woodpecker.*

Appearance Notes.—*Woodcock* and *Wren*, though officially counted as units of "Black Swan" class, were practically indistinguishable from later "Black Swan" type as completed. *Wild Goose* is the only one of the class with after superstructure, having extra cabins in place of "X" mounting and on quarter deck. She has been altered amidships, the "box" being removed abreast the funnel. *Wren* was refitted in April 1949 in Malta Dockyard, anti-submarine gear being removed from quarter deck and replaced by a structure containing Captain's quarters, and gun sponsons removed from the waist on either side.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Black Swan	Yarrow & Co. Ltd., Scotstoun, Glasgow.	20 Jun., 1938	7 Jul., 1939	27 Jan., 1940
Flamingo		26 May, 1938	18 Apr., 1939	3 Nov., 1939
Wild Goose		28 Jan., 1942	14 Oct., 1942	11 Mar. 1943
Woodcock	Fairfield S.B. & Eng. Co. Ltd., Govan, Glasgow.	21 Oct., 1941	26 Nov., 1942	29 May 1943
Wren	Wm. Denny & Bros. Ltd., Leven, Dumbarton.	27 Feb., 1941	11 Aug., 1942	4 Feb., 1943

Frigates (Ex-*Sloops*).

Added 1951, Official.

PELICAN

Builders :	John I. Thornycroft & Co. Ltd., Southampton
Laid down :	7 Sep. 1937
Launched:	12 Sept. 1938
Completed :	2 Mar. 1939
Displacement :	1,250 tons *standard* (1,790 tons *full load*)
Dimensions:	276 (*w.l.*), 293 (*o.a.*) × 37½ × 8½ (*mean*), 11 (*max.*) feet
Guns:	6—4 inch, 4—2 pdr. pompoms, 4—20 mm. AA.
Machinery:	Parsons single reduction-geared turbines. 2 shafts. S.H.P.: 3,600 = 19.25 kts. (*max.*)
Boilers:	2 Admiralty 3-drum type
Oil fuel:	370 tons
Complement:	188

Notes.—Built under 1937 Estimates. Speed now less. In reserve. Radar cabin abaft bridge. War losses : *Aukland, Egret.*

1946, *Wright & Logan.*

STORK

Builders :	Wm. Denny & Bros. Ltd., Dumbarton
Laid down :	19 June 1935
Launched:	21 Apr. 1936
Completed :	10 Sep. 1936
Displacement :	1,190 tons *standard* (1,790 tons *full load*)
Dimensions:	266 (*w.l.*), 282 (*o.a.*) × 37 × 8¼ (*mean*), 12 (*max.*) feet
Guns:	4—4 inch, 2—40 mm. AA., 4 D.C.T.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 3,300 = 18 kts. *max.* sea speed
Boilers:	2 Admiralty 3-drum type
Oil fuel:	270 tons
Complement:	125

Notes.—Built under 1934 Estimates as a Surveying Vessel, but refitted as a Sloop in 1939. Armament modified 1946 by removal of "8" mounting. Now in reserve. Sister ship *Bittern* was a war loss.

Submarine Target Ship.

1946, *Wright & Logan.*

WOODBRIDGE HAVEN (ex-*Loch Torridon*)

Builders:	Swan, Hunter & Wigham Richardson, Ltd., Wallsend-on-Tyne.
Laid down:	2 May 1944
Launched:	13 Jan. 1945
Completed:	19 Oct. 1945
Displacement:	1,652 tons *standard*, 2,160 tons *full load*
Dimensions:	307½ × 38½ × 14 feet
Guns:	2—40 mm. AA., 3—20 mm. AA.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 5,500 = 19·5 kts.
Boilers:	2 Admiralty 3-drum type

Notes.—Submarine Target Ship. Built as a frigate but converted into a Depot and Repair Ship. Pendant No. P 58. Sister ship *Derby Haven* (ex-*Loch Assynt*), Depot and Repair Ship for Coastal Craft, was transferred to Persia in 1949.

Radio Trials Ship.

1951, *Wright & Logan.*

FLEETWOOD

Builders:	H.M. Dockyard, Devonport
Laid down:	14 Aug. 1935
Launched:	24 Mar. 1936
Completed:	19 Nov. 1935
Displacement:	990 tons *standard* (1,500 tons *full load*)
Dimensions:	250 (*pp.*), 266 (*o.a.*) × 36 × 7¼ (*mean*), 10 (*max.*) feet
Machinery:	2 sets Parsons geared turbines. 2 shafts. S.H.P.: 2,000 = 16·5 kts.
Boilers:	2 Admiralty 3-drum type
Oil fuel:	280 tons

Notes.—Attached to Admiralty Signal and Radar Establishment as Radio Trials Ship. Bridge structure extended to provide extra accommodation. Armament removed. Refit and partial hull reconstruction 1950, for further five years service.

Navigational Training Ships.

2 Modified "Black Swan" Class.

REDPOLE.

1953, *Skyfotos.*

STARLING.

1949, *P. A. Vicary.*

	REDPOLE	STARLING
Displacement:	1,470 tons *standard* (1,925 tons *full load*)	
Dimensions:	299½ × 38 × 11 feet	
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 4,300 = 19·75 kts.	
Boilers:	2 Admiralty 3-drum type	

General Notes.—Formerly sloops (later reclassified as frigates) of "Black Swan" class. Armament removed and lattice mainmasts for radar fitted. Now serving as Navigational School Instructional Tenders.

Appearance Notes.—*Redpole* retains tripod foremast. *Starling* has lattice foremast.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Redpole	Yarrow & Co., Ltd., Scotstoun	18 May 1942	25 Feb. 1943	24 June 1943
Starling	Fairfield S.B. & Eng. Co., Ltd., Govan	21 Oct. 1941	14 Oct. 1942	1 Apr. 1943

New Construction

Note.—It is officially stated that the construction of the new type of fast submarine is continuing satisfactorily and, in addition, a number of an interim type, with better performance than any predecessor, are being built.

15 " A " Class.

ALCIDE. 1951, *Wright & Logan.*

2 *Cammel Laird*

ÆNEAS
ALARIC

1 *Chatham Dockyard*

ACHERON

2 *Scotts*

ARTEMIS
ARTFUL

10 *Vickers-Armstrongs (Barrow)*

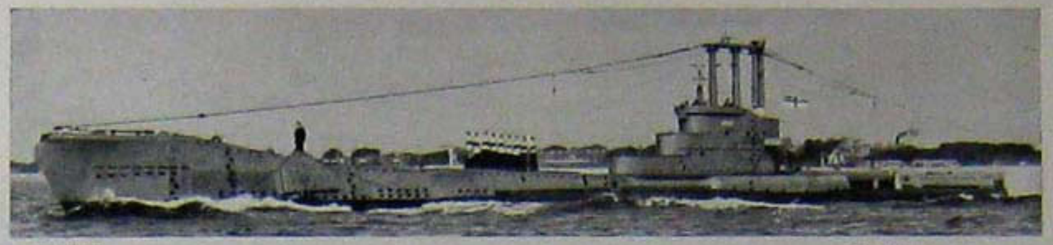
ALCIDE
ALDERNEY
ALLIANCE
AMBUSH
AMPHION (ex-*Anchorite*)
ANCHORITE (ex-*Amphion*)
ANDREW
ASTUTE
AURIGA
AUROCHS

Displacement :	1,120 tons *standard*, 1,335 tons *surface*, 1,620 tons *submerged*
Dimensions :	279¼ (pp.), 281½ (*o.a.*) × 22¼ × 17 feet
Guns :	1—4 inch, 7 M.G. (4-inch removed in some, see notes)
Tubes :	10—21 inch 6 bow and 4 stern, 4 being external, 20 torpedoes carried (or 26 mines)
Machinery :	8 cyl. Diesels, B.H.P. : 4,300 = 18 kts. *surface* ; Electric motors, H.P. : 1,250 = 8 kts. *submerged*
Oil fuel :	159 tons
Complement:	60

General Notes.—These submarines are understood to have been designed for service in the Pacific, and have a different hull form from " T " type. Construction is entirely welded, and all possess " Snort " breathing equipment. *Alliance* and *Ambush*, so fitted, remained submerged for record periods in 1947-48. On 15 June, 1953, *Andrew* completed a 2,500 sea miles voyage under water from Bermuda to the English Channel in 15 days, a record for " snorting " in the Royal Navy. Following 30 units were cancelled, though some had actually been launched: *Alelord, Acasta, Ace, Achates, Adept, Admirable, Adversary, Agate, Aggressor, Agile, Aladdin, Alcestis, Andromache, Answer, Antaeus, Antagonist, Anzac, Aphrodite, Approach, Arcadian, Argent, Argosy, Asgard Asperity, Assurance, Astarte, Atlantis, Austere, Awake, Aztec. Affray* failed to surface in English Channel 17 April, 1951.

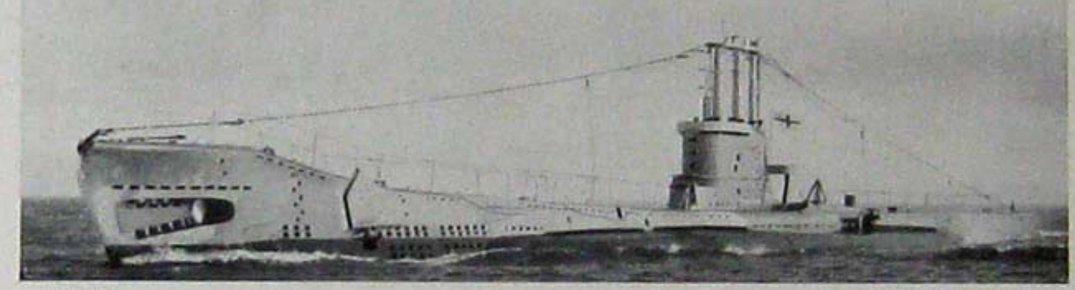
Appearance Notes.—*Acheron, Aeneas, Alaric, Artemis, Artful* and *Astute* have had the 4-inch gun removed. *Alderney* and *Amphion* have half shields to gun. The appearance of submarines, with or without guns, etc., is liable to change frequently and quickly according to operational and experimental requirements.

Name	*Laid down*	*Launched*	*Completed*
Acheron	26 Aug. 1944	25 Mar. 1947	17 Apr. 1948
Aeneas	10 Oct. 1944	25 Oct. 1945	31 July 1946
Alaric	31 May 1944	18 Feb. 1946	11 Dec. 1946
Alcide	2 Jan. 1945	12 Apr. 1945	18 Oct. 1946
Alderney	6 Feb. 1945	25 June 1945	10 Dec. 1945
Alliance	13 Mar. 1945	28 July 1945	14 May 1947
Ambush	17 May 1945	24 Sep. 1945	22 July 1947
Amphion	14 Nov. 1943	31 Aug. 1944	27 Mar. 1945
Anchorite	19 July 1945	22 Jan. 1946	18 Nov. 1947
Andrew	13 Aug. 1945	6 Apr. 1946	16 Mar. 1948
Artemis	28 Feb. 1944	26 Aug. 1946	15 Aug. 1947
Artful	8 June 1944	22 May 1947	23 Feb. 1948
Astute	4 Apr. 1944	30 Jan. 1945	30 June 1945
Auriga	7 June 1944	29 Mar. 1945	12 Jan. 1946
Aurochs	21 June 1944	28 July 1945	7 Feb. 1947

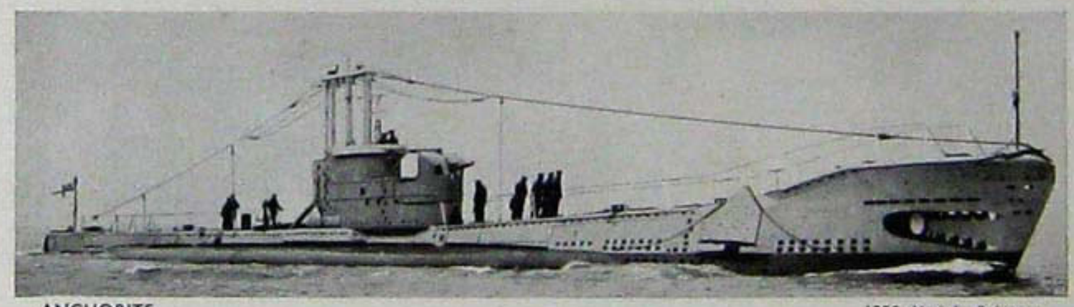


ASTUTE. 1953, *Wright & Logan.*

ARTEMIS. 1951, *P. A. Vicary.*



ALARIC. 1950, *Wright & Logan.*



ANCHORITE. 1950, *Wright & Logan.*

23 "T" Class.

TIRELESS. 1953, *Wright & Logan.*

TAPIR (*ex-Zeehond*) 1952, *Wright & Logan.*

4 Chatham Dockyard	*4 Devonport Dockyard*	*2 Portsmouth Dockyard*	*12 Vickers-Armstrongs (Barrow)*	
THERMOPYLAE	**THULE**	**TIRELESS**	**TACITURN**	**TELEMACHUS**
TRADEWIND	**TOTEM**	**TOKEN**	**TACTICIAN**	**TEREDO**
TRENCHANT	**TRUNCHEON**		**TALENT** (*ex-Tasman*)	**THOROUGH**
TURPIN	**TUDOR**	*1 Scotts*	**TALLYHO**	**TIPTOE**
			TAPIR (*ex-Zeehond*)	**TRESPASSER**
		TABARD	**TAURUS** (*ex-Dolfijn*)	**TRUMP**

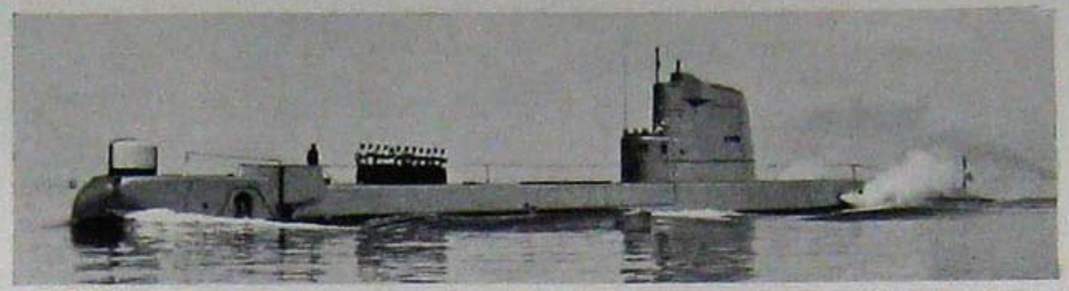
Displacement :	1,090 tons *standard*, 1,321 tons *surface*, 1,571 tons *submerged*
Dimensions :	265 (*pp.*), 273½ (*o.a.*) × 26½ × 12 feet
Guns :	1—4 inch, 3 M.G.
Tubes :	11—21 inch (5 external). 17 torpedoes carried (*Tradewind* has only two bow tubes)
Machinery :	Diesels. B.H.P. : 2,500 = 15 kts. *surface*; Electric motors, H.P. : 1,450 = 9 kts. *submerged*
Oil Fuel :	132/210 tons
Complement :	59

General Notes.—Officially described as "Patrol" type submarines, for general service. Saddle-tank design, with endurance equal to a 42-day patrol. All fitted with "Snort" equipment. External tubes removed in *Tireless, Tradewind, Truncheon, Tudor.* Second World War losses: *Talisman, Tempest, Thorn, Thunderbolt* (ex-*Thetis*), *Tigris, Tarpon, Traveller, Trooper, Tetrarch, Thistle, Triad Triton, Triumph, Turbulent, P* 311. Cancelled or scrapped: *Talent* (1) (*P.*343), *Theban, Thor, Threat, Tiara. Talent* (2) and *Tarn* were transferred to Royal Netherlands Navy. *Truculent* sank after collision with Swedish tanker in Thames Estuary, Jan. 12, 1950, but was salvaged March 14 by special lifting vessels; Admiralty announced scrapped April 5, 1950. *Tantalus, Tantivy, Templar,* discarded late 1950. *Tactician, Telemachus* and *Thorough* are on loan to the Royal Australian Navy for anti-submarine training. *Tapir* and *Taurus* which were lent to the Royal Netherlands Navy in June 1948 were returned to the Royal Navy in 1953, *Tapir* on 16 July and *Taurus* later.

Appearance Notes.—*Tradewind* has been reconstructed. *Taciturn, Thermopylae, Tireless, Totem, Turpin,* rebuilt on similar lines to American "Guppy" type.

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Tabard	6 Sep. 1944	21 Nov. 1945	25 June 1946	*Tiptoe*	10 Nov. 1942	25 Feb. 1944	13 June 1944
Taciturn	9 Mar. 1943	7 June 1944	7 Oct. 1944	*Tireless*	30 Oct. 1941	19 Mar. 1943	18 Apr. 1945
Tactician	13 Nov. 1941	29 July 1942	29 Nov. 1942	*Token*	6 Nov. 1941	19 Mar. 1943	15 Dec. 1945
Talent	21 Mar. 1944	13 Feb. 1945	26 July 1945	*Totem*	22 Oct. 1942	28 Sep. 1943	9 Jan. 1945
Tallyho	25 Mar. 1942	23 Dec. 1942	11 Apr. 1943	*Tradewind*	11 Feb. 1942	11 Dec. 1942	18 Oct. 1943
Tapir	29 Mar. 1943	21 Aug. 1944	30 Dec. 1944	*Trenchant*	9 May 1942	24 Mar. 1943	26 Feb. 1944
Taurus	30 Sep. 1941	27 July 1942	3 Nov. 1942	*Trespasser*	8 Sep. 1941	29 May 1942	25 Sep. 1942
Telemachus	25 Aug. 1942	19 June 1943	25 Oct. 1943	*Trump*	31 Dec. 1942	25 Mar. 1944	9 July 1944
Teredo	17 Apr. 1944	27 Apr. 1945	5 Apr. 1946	*Truncheon*	5 Nov. 1942	22 Feb. 1944	25 May 1945
Thermopylae	26 Oct. 1943	27 June 1945	5 Dec. 1945	*Tudor*	20 Sep. 1941	23 Sep. 1942	16 Jan. 1944
Thorough	26 Oct. 1942	30 Oct. 1943	29 Feb. 1944	*Turpin*	24 May 1943	5 Aug. 1944*	18 Dec. 1944
Thule	20 Sep. 1941	22 Oct. 1942	13 May 1944			* Relaunched 17 Feb. 1951	

THERMOPYLAE. 1953, *Wright & Logan.*



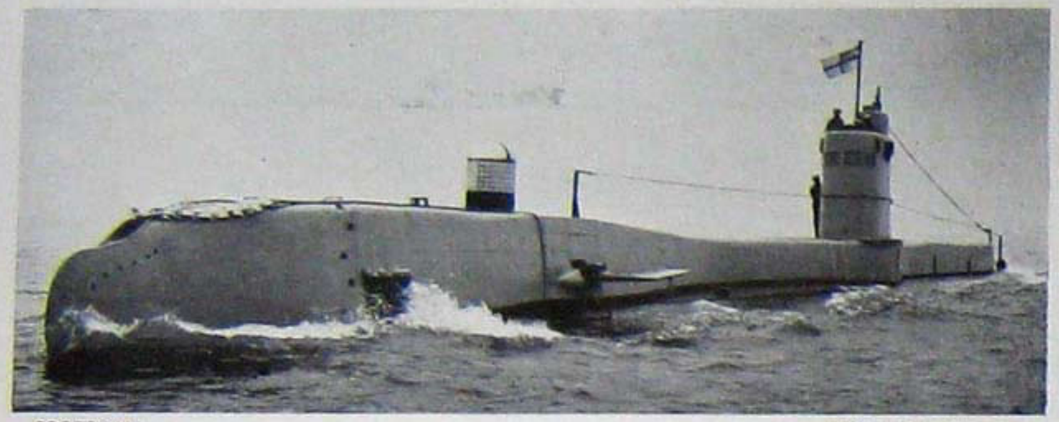
TACITURN. 1952, *Wright & Logan.*

THULE. 1952, *Wright & Logan.*

TRADEWIND. 1952, *Wright & Logan.*

17 "S" Class.

SCOTSMAN. 1953, *at Coronation Naval Review.*



SCOTSMAN. 1950, *Wright & Logan.*

10 *Cammell Laird*

SANGUINE
SCORCHER
SEA SCOUT
SELENE

SIDON
SLEUTH
SOLENT
SPRINGER
STURDY
SUBTLE

6 *Scotts*

SCOTSMAN
SCYTHIAN
SEA DEVIL
SENESCHAL

SENTINEL
SIRDAR (completed at Barrow)

1 *Vickers-Armstrongs (Barrow)*

SERAPH (ex-*P 219*)

Displacement:	715 tons *standard*, 814 tons *surface*, 1,000 tons *submerged*
Dimensions:	202½ (*pp.*), 217 (*o.a.*) × 23¾ × 10¼ (mean) feet
Guns:	1—4 inch (removed in some), 1—20 mm. AA.
Tubes:	6—21 inch (bow), earlier units, 7, including 1 external. 13 torpedoes carried
Machinery :	Varies in detail (see notes). Diesels, B.H.P. : 1,900 = 14 kts. *surface* : Electric motors, H.P. : 1,300 = 10 kts. *submerged*
Oil Fuel:	44 tons
Complement:	44

General Notes.—Very handy craft, capable of making a " crash-dive " in 30 seconds. Later units have slightly higher freeboard forward. Second World War losses: *Sahib, Saracen, Sickle, Simoon, Stonehenge, Stratagem, Sytis, Splendid, P 222.* Cancelled units: *Sea Robin, Sprightly, Surface, Surge.* In 1948 *Saga, Spearhead* and *Spur* sold to Portugese Navy. *Satyr, Spiteful, Sportsman* (lost 23 Sep. 1952) and *Statesman* transferred to French Navy, Oct. 1951, to July 1952.

Appearance Notes.—*Sanguine, Scotsman, Selene, Seneschal, Sturdy* and others all modified for experimental purposes, see photos.

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Sanguine	10 Jan. 1944	15 Feb. 1945	13 May 1945	*Seraph*	16 Aug. 1940	25 Oct. 1941	10 June 1942
Scorcher	14 Dec. 1943	18 Dec. 1944	16 Mar. 1945	*Sidon*	7 July 1943	4 Sep. 1944	23 Nov. 1944
Scotsman	15 Apr. 1943	18 Aug. 1944	9 Dec. 1944	*Sirdar*	24 Apr. 1941	26 Mar. 1943	18 Sep. 1943
Scythian	21 Feb. 1943	14 Apr. 1944	11 Aug. 1944	*Sleuth*	30 June 1943	6 July 1944	8 Oct. 1944
Sea Devil	5 May 1943	30 Jan. 1945	12 May 1945	*Solent*	7 May 1943	8 June 1944	7 Sep. 1944
Sea Scout	1 Apr. 1943	24 Mar. 1944	19 June 1944	*Springer*	8 May 1944	14 May 1945	2 Aug. 1945
Selene	16 Apr. 1943	24 Apr. 1944	14 July 1944	*Sturdy*	22 Dec. 1942	30 Sep. 1943	29 Dec. 1943
Seneschal	1 Sep. 1943	23 Apr. 1945	6 Sep. 1945	*Subtle*	1 Feb. 1943	27 Jan. 1944	16 Apr. 1944
Sentinel	15 Nov. 1943	27 July 1945	28 Dec. 1945				

SENESCHAL. 1953, *Skyfotos.*

SANGUINE. 1952, *A. & J. Pavia.*

SELENE. 1951, *Wright & Logan.*

STURDY. 1951, *A. & J. Pavia.*

Submarines—*continued.*

2 "U" Class.

UNTIRING (*ex-Amfitriti, ex-Untiring*) **UPSTART** (*ex-Xifias, ex-Upstart*)

Displacement :	545 tons *standard*, 658 tons *surface*, 740 tons *submerged*
Dimensions :	196½ (*o.a.*) × 16½ × 15 feet
Guns :	1—3 inch, 3 M.G.
Tubes :	4—21 inch (bow). 8 torpedoes carried
Machinery :	2 Daveh Paxman Diesels. B.H.P. : 615 = 11·25 kts. *max. surface* 2 Electric motors. H.P. : 825 = 9 kts. *max. submerged*
Oil fuel :	55 tons
Complement :	33

Notes.—Lent to Royal Hellenic Navy 1943-46. Returned to Royal Navy 1952. Refitted 1953, one for service, other for reserve. Diesel electric drive.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Untiring	Vickers-Armstrongs, Ltd., (Tyne)	23 Dec. 1941	20 Jan. 1943	9 June 1943
Upstart	Vickers-Armstrongs, Ltd., (Barrow)	17 Mar. 1942	24 Nov. 1942	3 Apr. 1943

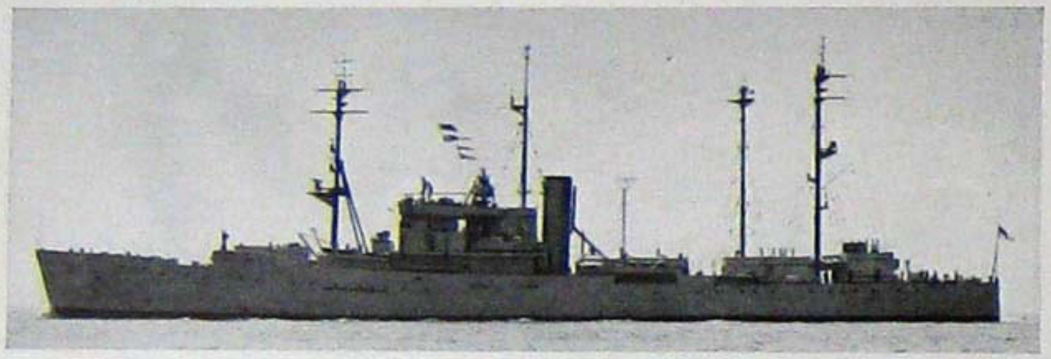
1 "XE" Class.

XE 9

Displacement :	30 tons *surface* ; 34 tons *submerged*
Dimensions :	53 × 5½ × 7 feet
Machinery :	One Gardner engine, B.H.P. : 42 = 6·5 kts. *surface* ; and one electric motor. H.P. : 30 = 6 kts. *submerged*.
Complement :	3 officers, 5 ratings

Notes.—Midget type. Used for training and instruction. *XE* 12 was cannibalised as spares for remaining boats, *XE* 8 scrapped 1952, and *XE* 7 discarded 1953.

Radar Training Ship.



1951, *C. Parsons, Esq.*

BOXER

Builders :	Harland & Wolff, Ltd., Belfast
Laid down	31 July 1941
Launched:	12 Dec. 1942
Completed:	1 Aug. 1943
Displacement:	4,250 tons (6,240 tons *full load*)
Dimensions:	390 (*pp.*), 400 (*o.a.*) × 49 × 17¼ feet
Guns:	None at present
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 7,000 = 16 kts.
Boilers:	Foster-Wheeler "D" type
Complement:	17 officers, 220 men + 50-80 under training.

Notes.—Originally built as a Tank Landing Ship, in which capacity she served. She was subsequently converted into a Fighter Direction Ship and after the war into a Radar Training Ship. Her equipment includes 24 high-power radar sets, i.e. installations equivalent to those carried in a fleet aircraft carrier, a cruiser, and two destroyers, and an unprecedented quantity of radio apparatus for various purposes. She is the only vessel in the Royal Navy with four masts, and is now a seagoing Radar Personnel Training Ship attached to the Navigation School. *Thruster* of this class is now *Pelikaan* in Royal Netherlands Navy.

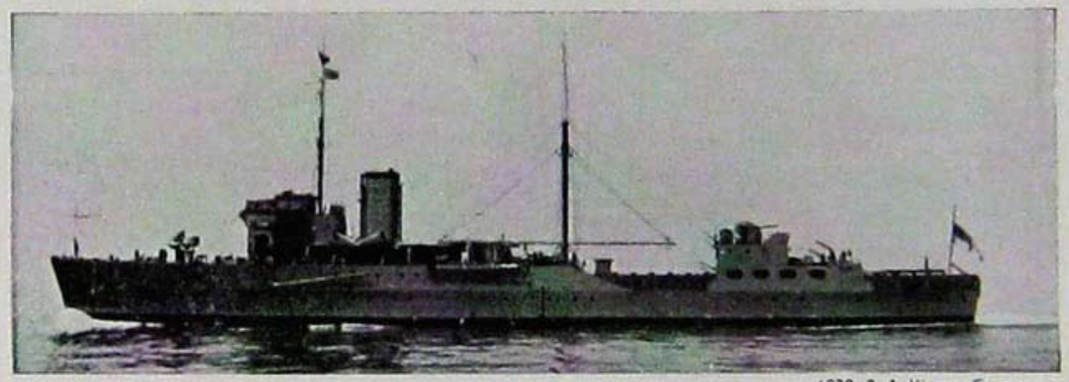
Netlayers.

1953, *Skyfotos.*

PROTECTOR

Builders :	Yarrow & Co., Ltd., Scotstoun
Laid down:	15 Aug. 1935
Launched:	20 Aug. 1936
Completed	Dec. 1936
Displacement:	2,920 tons (3,610 tons *full load*)
Dimensions:	310 (*pp.*), 338 (*o.a.*) × 50 × 11½ (*mean*) 15 (*max.*) feet
Guns :	2—4 inch (twin mount), 8—20 mm. Oerlikons
Machinery:	Parsons geared turbines. (Re-engined 1945). S.H.P.: 9,000 = 20 kts.
Boilers:	2 Admiralty 3-drum type
Oil fuel:	690 tons
Complement:	190

Notes.—Designed for Netlaying and Target Towing. Ordered under 1934 Estimates. Handier and faster ship than *Guardian*, her design embodying experience gained with that vessel. She has greater lifting power for dealing with nets.



1939, *P. A. Vicary, Cromer.*

GUARDIAN

Builders :	H.M. Dockyard, Chatham
Laid down:	15 Oct. 1931
Launched:	1 Sept. 1932
Completed:	13 June 1933
Displacement:	2,860 tons (3,665 tons *full load*)
Dimensions:	310 (*pp.*), 338 (*o.a.*) × 53 × 15 (*max.*), 11½ (*mean*) feet
Guns:	2—4 inch AA., 6—20 mm. AA., 6 Lewis M.G.
Machinery :	Parsons geared turbines by Wallsend Co. S.H.P. : 6,500 = 18 kts. (*designed*), now 16 kts.
Boilers:	2 Admiralty 3-drum type
Oil fuel:	720 tons
Complement:	181

Notes.—Designed for Netlaying and Fleet Photography. The nets, sinkers and buoys are stowed to port and starboard, on upper deck from just forward of the main-mast under the forcastle deck to the stern. The structure aft, placed on the deck spanning the nets, is the photographic cabin. This ship is very beamy in relation to her length, the ratio being 1 : 6 only.

302

Minesweeping Headquarters Ship and Ocean Minesweepers.

65 " Algerine " Class.

TRUELOVE. 1950, Wright & Logan.

1 Blyth S.B. & D.D. Co.

BRAVE

1 Fleming & Ferguson

COCKATRICE

16 Harland & Wolff

ACUTE
ALBACORE
CHAMELEON
CHEERFUL
CIRCE
ESPIEGLE
HARE
JEWEL
MUTINE
ONYX
PICKLE
PINCHER
PLUCKY
RECRUIT
RIFLEMAN
RINALDO

14 Lobnitz

BRAMBLE
FIERCE
HOUND
LENNOX
NIGER (Minesweeping Headquarters Ship)
ORESTES
RATTLESNAKE
ROWENA
STORMCLOUD
SYLVIA
TANGANYIKA
WATERWITCH
WAVE
WELCOME

9 Port Arthur Shipyards

LYSANDER (ex-*Cornflower*, ex-*Lysander*, ex-*Hespeler*)
MARINER (ex-*Kincardine*)
MARMION (ex-*Orangeville*)
ORCADIA
OSSORY
PLUTO
POLARIS
PYRRHUS
ROMOLA

24 Redfern Construction Co.

COQUETTE (ex-*Bowmanville*)
COURIER (ex-*Arnprior*)
GOLDEN FLEECE (ex-*Humberstone*)
JASEUR
LAERTES
LIONESS (ex-*Petrolia*)
MÆNAD
MAGICIENNE
MANDATE
MARVEL
MARY ROSE (ex-*Toronto*)
MELITA
MICHAEL
MOON (ex-*Mimico*)
MYRMIDON
MYSTIC
NERISSA
PROVIDENCE (ex-*Forest Hill*)
SEABEAR (ex-*St. Thomas*)
SERENE (ex-*Leaside*)
SKIPJACK (ex-*Solebay*)
THISBE
TRUELOVE
WELFARE

General Notes.—Largest and most efficient minesweepers in the Royal Navy. Frequently used as escort vessels. *Marvel* and *Pluto* attached to *Vernon* establishment. *Coquette*, *Mariner*, *Romola*, *Truelove*, *Wave* and *Welcome* are Fishery Protection Vessels. *Brave* and *Circe* are R.N.V.R. drillships for the Tyne and Tay Divisions, respectively. One ship sold to Siam, and two to S. African N. F. *Arcturus*, *Aries*, *Gozo* and *Lightfoot* transferred to Royal Hellenic Navy. *Fly* transferred to Persia in 1949. *Flying Fish* transferred to Ceylon Government Sept. 1949. *Codmus*, *Fancy*, *Liberty*, *Ready*, *Rosario* and *Spanker* transferred to Belgian Navy 1949-53. *Niger* converted into Minesweeping Headquarters Ship in 1949. *Lorne* transferred to Italy. Cancelled ships: *Happy Return*, *Nicator*, *Nox*, *Styx*. War losses: *Alarm*, *Algerine*, *Loyalty*, *Regulus*, *Squirrel*, *Vestal*. *Fantome*, *Mameluke*, *Prompt*, *Hydra*, *Octavia* and *Felicity* scrapped Name of *Lysander* changed to *Cornflower* 1950 on allocation to Hong Kong R.N.V.R., reverted to *Lysander* 1951.

Appearance Notes.—Gunhouse in *Romola*, *Truelove*, *Wave*. Squid in *Pluto* instead of 4-inch gun. *Coquette*, Senior Officer, Fishery Protection, now has a deckhouse abaft the funnel in place of the rangefinder platform. *Fierce* employed as S.O. ship of M/S flotillas has extra deckhouse aft.

PLUTO. 1953, *Skyfotos*

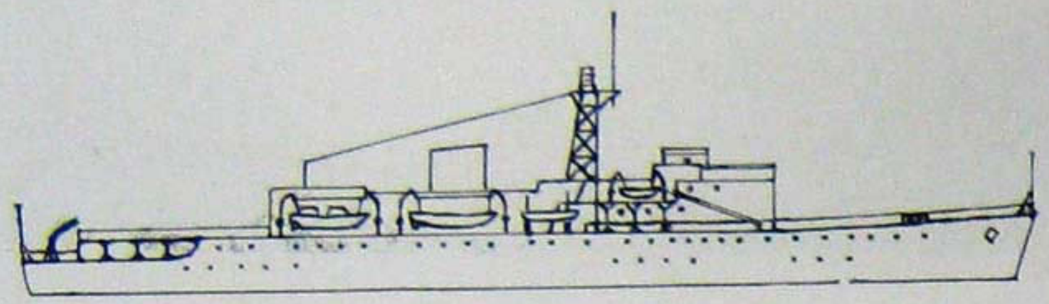
Displacement :	950 to 1,040 tons (1,225, *Niger* 1,245, to 1,335 tons *full load*)
Dimensions :	225 (*pp.*), 235 (*o.a.*) × 35½ × 10½ to 11½ (*max.*) feet
Guns :	1—4 inch, 4—40 or 6—20 mm. AA. (*Niger*, 1—4 inch, 4—40 mm., 2—20 mm. AA.)
A/S Weapons :	4 D.C.T. (1 squid in *Pluto*, instead of 4-inch gun, see photo). *Niger* 2 D.C.T.
Machinery :	Geared turbines in Blyth and Harland & Wolff ships; triple expansion in others 2 shafts. H.P. : 2,000 (*Niger* I.H.P. : 2,400) = 16·5 kts.
Boilers :	2, of 3-drum type
Oil fuel :	235 tons
Complement :	95 (peace) ; 104 to 138 (war)

Name	*Laid down*	*Launched*	*Completed*
Acute	24 July 1941	14 Apr. 1942	30 July 1942
Albacore	24 July 1941	2 Apr. 1942	16 June 1942
Bramble	30 June 1944	26 Jan. 1945	28 June 1945
Brave	23 Apr. 1942	4 Feb. 1943	3 Aug. 1944
Chameleon	20 Aug. 1943	6 May 1944	14 Sep. 1944
Cheerful	20 Aug. 1943	22 May 1944	13 Oct. 1944
Circe	21 July 1941	27 June 1942	16 Oct. 1942
Cockatrice	29 Dec. 1941	27 Oct. 1942	10 Apr. 1943
Coquette	9 Aug 1943	24 Nov. 1943	...
Courier	7 Sep. 1943	22 Dec. 1943	...
Espiegle	5 Feb. 1942	12 Aug. 1942	1 Dec. 1942
Fierce	26 Nov. 1944	11 Sep. 1945	28 Nov. 1945
Golden Fleece	25 Oct. 1943	29 Feb. 1944	...
Hare	27 Nov. 1943	20 June 1944	10 Nov. 1944
Hound	2 Dec. 1941	29 July 1942	11 Dec. 1942
Joseur	27 Dec. 1943	19 Apr. 1944	...
Jewel	27 Nov. 1943	20 July 1944	9 Dec. 1944
Laertes	20 Jan. 1944	25 Mar. 1944	2 Mar. 1945
Lennox	3 Mar. 1943	15 Oct. 1943	18 Jan. 1944
Lioness	10 Nov. 1943	15 Mar. 1944	11 Dec. 1944
Lysander	3 June 1943	11 Nov. 1943	21 Nov. 1944
Mænad	1 Mar. 1944	8 June 1944	...
Magicienne	19 Feb. 1944	24 June 1944	...
Mandate	1 Apr. 1944	9 Aug. 1944	22 Mar. 1945
Mariner	26 Aug. 1943	9 May 1944	...
Marmion	30 Aug. 1943	15 June 1944	...
Marvel	19 Apr. 1944	30 Aug. 1944	...
Mary Rose	25 Feb. 1943	5 Aug. 1943	...
Melita		8 Dec. 1942	...
Michael	25 Apr. 1944	20 Sep. 1944	
Moon	23 Mar. 1943	2 Sep. 1943	...
Mutine	24 Nov. 1941	10 Oct. 1942	26 Feb. 1943
Myrmidon	19 July 1944	21 Oct. 1944	...
Mystic	9 Aug. 1944	11 Nov. 1944	...
Nerissa	30 Aug. 1944	25 Nov. 1944	...
Niger	5 Nov. 1944	1 May 1945	21 Sep. 1945
Onyx	24 Nov. 1941	27 Oct. 1942	26 Mar. 1943
Orcadia	19 Nov. 1943	8 Aug. 1944	...
Orestes	27 Mar. 1942	25 Nov. 1942	10 Apr. 1943
Ossory	20 Nov. 1943	3 Oct. 1944	...
Pickle	11 Jan. 1943	3 Aug. 1943	15 Oct. 1943
Pincher	11 Jan. 1943	19 Aug. 1943	12 Nov. 1943
Plucky	20 Apr. 1943	29 Sep. 1943	10 Dec. 1943
Pluto	18 Jan. 1944	21 Oct. 1944	...
Polaris	15 May 1944	13 Dec. 1944	...
Providence	17 Apr. 1943	27 Oct. 1943	...
Pyrrhus	22 June 1944	19 May 1945	...
Rattlesnake	5 June 1942	23 Feb. 1943	23 June 1943
Recruit	20 Apr. 1943	26 Oct. 1943	14 Jan. 1944
Rifleman	20 Apr. 1943	25 Nov. 1943	11 Feb. 1944
Rinaldo	22 Sep. 1942	20 Mar. 1943	18 June 1943
Romola	16 Mar. 1944	19 May 1945	...
Rowena	29 Oct. 1943	5 June 1944	6 Sep. 1944
Seabear	12 July 1943	6 Nov. 1943	...
Serene	19 July 1943	18 Oct. 1943	...
Skipjack	19 Nov. 1942	7 Apr. 1943	...
Stormcloud	4 May 1943	28 Dec. 1943	28 Mar. 1944
Sylvia	5 July 1943	28 Feb. 1944	17 May 1944
Tanganyika	20 Sep. 1943	12 Apr. 1944	7 July 1944
Thisbe	14 Dec. 1942	12 Apr. 1943	...
Truelove	7 Jan. 1943	8 July 1943	
Waterwitch	15 Aug. 1942	22 Apr. 1943	6 Aug. 1943
Wave	17 Mar. 1944	18 Aug. 1944	14 Nov. 1944
Welfare	8 Feb. 1943	15 July 1943	...
Welcome	3 May 1944	14 Nov. 1944	20 Jan. 1945

Survey Ships.

1 "Vidal" Class

(New Construction).



VIDAL. *Admiralty Official Drawing*, August 1953.

VIDAL

Builders:	H.M. Dockyard, Chatham
Engineers:	H.M. Dockyard, Chatham
Laid down:	5 July 1950
Launched:	31 July 1951
Completed:	End 1953

Displacement:	About 2,000 tons
Dimensions:	297 (pp.), 315 (*o.a.*) × 40 × — feet
Armament:	Saluting guns and depth charges
Aircraft:	1 helocopter
Machinery:	4 Diesel engines driving two shafts through reverse and reduction gear boxes
Complement:	160

General Notes.—Designed by Admiralty from the start for hydrographic surveying and chart production. Main propelling machinery designed in Royal Dockyard, Chatham. First surveying ship to be equipped with helicopter flight deck and hangar, designed to enable a helicopter to land on and fly off for air surveying photography and transport of personnel to shore observation stations. The latest electronic aids to surveying and navigation are incorporated. Electrical power is provided from 360 kw. 220 volt direct current diesel generating sets. Air conditioning plant is installed to meet equatorial and polar climatic conditions. Ship carries three surveying motor launches equipped with echo sounding apparatus. First British naval vessel to be built equipped from the beginning for cafeteria messing.

Helicopter Notes.—The after end of the forecastle deck extension is a landing apron for the helicopter, which is housed in the after deck house hangar on the same level.

Appearance Notes.—The funnel and the fore part of the bridge are pear-shaped in plan (official).

Survey Ships—*continued.*

4 "Cook" Class (*Frigate Type*).

COOK. 1951, *C. Parsons, Esq.*

COOK (ex-*Pegwell Bay*, ex-*Loch Mochrum*)
DALRYMPLE (ex-*Luce Bay*, ex-*Loch Glass*)
DAMPIER (ex-*Herne Bay*, ex-*Loch Eil*)
OWEN (ex-*Thurso Bay*, ex-*Loch Muick*)

Displacement:	1,640 tons (2,280 tons *full load*)
Dimensions:	286 (pp.), 307 (*o.a.*) × 38½ × 12½ feet (14½ feet *max.*)
Armament:	4—3 pdrs., 2 D.C.T.
Machinery:	2 4-cylinder triple expansion. 2 shafts. I.H.P.: 5,500 = 19·5 kts.
Boilers:	2 Admiralty 3-drum type
Oil fuel:	580 tons
Complement:	160 (Cook 158)

Notes.—All ex-frigates. *Cook*, *Dalrymple*, both completed at Devonport; *Dampier*, *Owen*, both completed at Chatham. Equipped with Radar, Asdic and other modern equipment. Electrical power in these ships at 220 volts DC is derived from two 120 kw. steam-turbine-driven and two 150 kw. diesel-driven generators. Main machinery of *Cook* and *Dalrymple* manufactured by George Clark, Ltd., Sunderland.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Cook	Wm. Pickersgill & Sons, Ltd., Sunderland	30 Nov. 1944	24 Sep. 1945	20 July 1950
Dalrymple	Wm. Pickersgill & Sons, Ltd., Sunderland	29 Apr. 1944	12 Apr. 1945	10 Feb. 1949
Dampier	Smith's Dock Co., Ltd., South Bank-on-Tees	7 Aug. 1944	15 May 1945	6 June 1948
Owen	Hall, Russell & Co., Ltd., Aberdeen	30 Sep. 1944	19 Oct. 1945	23 Sep. 1949

Survey Ships—*continued.*

4 " Franklin " Class *(Ocean Minesweeper Type).*

SCOTT. 1953, *Skyfotos.*

SHACKLETON. 1951, *P. A. Vicary.*

	FRANKLIN	SCOTT	SEAGULL	SHACKLETON *(ex-Sharpshooter)*
Displacement:	830 tons (1,260 tons *full load*)			
Dimensions:	230 (*pp.*), 245 (*o.a.*) × 33½ × 7 (*mean*) 10 (*max.*) feet			
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 1,750 = 17 kts			
Boilers:	2 Admiralty 3-drum type			
Oil fuel:	220 tons			
Complement:	80			

Notes.—All begun as fleet minesweepers under 1935, 1936 and 1937 Estimates. First two differ from latter pair, as apparent from photos. *Seagull*, laid down 15 Feb. 1937, is of all-welded construction. *Shackleton* was renamed in 1953.

Name	*Builders*	*Launched*	*Completed*
Franklin	Ailsa Shipbuilding Co. Ltd., Troon.	22 Dec. 1937	4 July 1938
Scott	Caledon Shipbuilding & Engineering Co. Ltd., Dundee.	23 Aug. 1938	31 July 1939
Seagull	H.M. Dockyard, Devonport.	28 Oct. 1937	30 May 1938
Shackleton	H.M. Dockyard, Devonport.	10 Dec. 1936	17 Dec. 1937

1953, *J. W. Kennedy.*

CHALLENGER

Builders:	H.M. Dockyard, Chatham
Launched	1 June 1931
Displacement:	1,140 tons (1,705 tons *full load*)
Dimensions:	200 (*pp.*), 220 (*o.a.*) × 36 × 12¼ (*mean*) feet
Machinery:	Triple expansion. I.H.P.: 1,200 = 12·5 kts.
Oil fuel:	340 tons
Radius:	9,000 miles
Complement:	84

Minelayer.

1953, *J. W. Kennedy.*

PLOVER

Builders:	Wm. Denny & Bros. Ltd., Dumbarton
Laid down:	7 Oct. 1936
Launched:	8 June 1937
Completed:	Sept. 1937
Displacement:	805 tons (1,020 tons *full load*)
Dimensions:	180 (*pp.*), 195½ (*o.a.*) × 37½ × 8½ feet
Guns:	2 M.G.
Machinery:	Triple expansion. IH.P.: 1,400 = 14.75 kts.
Complement:	69

Notes.—Built as a coastal minelayer. Employed as minelaying tender to Torpedo and Anti-Submarine School, *H.M.S. Vernon.*

Controlled Minelayers.

1953, *A. & J. Pavia.*

REDSHANK (ex-*Turbot*)

Builders:	Cochrane & Sons, Ltd., Selby
Laid down:	18 May 1942
Launched:	28 Aug. 1942
Completed:	10 Jan. 1943
Displacement:	680 tons standard (900 tons *full load*)
Dimensions:	162 × 25½ × 12½ feet
Guns:	1 small
Machinery:	Triple expansion. 1 shaft. I.H.P.: 700 = 11·25 kts.
Boilers:	1 cylindrical
Oil fuel:	200 tons

Notes.—Built as a minelaying trawler and specially equipped for controlled minelaying. Engined by Amos & Smith.

STONECHAT. 1951, *P. A. Vicary.*

DABCHICK (ex-*Thorney*) **STONECHAT**

Displacement:	560 tons (790 tons *full load*)
Dimensions:	150 (*pp.*), 164 (*o.a.*) × 27½ × 12½ feet
Guns:	1—20 mm. AA., etc.
Machinery:	Triple expansion. I.H.P.: 850 = 12·5 kts.
Boiler:	1 cylindrical

Notes.—Trawler type vessels. Specially equipped for controlled minelaying. Another of this type in Royal Canadian Navy. War loss: *Corncrake* (Cochrane). *Blackbird* acquired by Guent Company and converted into a fishing trawler 1949.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Dabchick	Cook, Welton & Gemmell, Ltd., Beverley	20 Nov. 1942	9 Mar. 1943	8 July 1943
Stonechat		23 Feb. 1944	22 Aug. 1944	12 Nov. 1944

Controlled Minelayers—*continued.*

GOSSAMER. 1953, *Skyfotos.*

MINER V. 1951, *J. W. Kennedy.*

GOSSAMER (ex-*Miner II*)
MINER I **MINER III** **MINER IV** **MINER V** **MINER VI** **MINER VII** **MINER VIII**

Displacement:	346 tons (355 tons *full load*)
Dimensions:	110½ × 26½ × — feet
Machinery:	Ruston & Hornby Diese's. 2 shafts. B.H.P.: 360 = 10 kts.

Notes.—Built by Philip & Son, Ltd. Launched 1939–44. *Gossamer* is mine location vessel. *Miner V* (anti-submarine ship) and *Miner VII* are tenders to *H.M.S. Defiance*, Torpedo, Anti-Submarine and Electrical School, Devonport. *Miner III* and *Miner IV* have black hulls red waterline and light grey upperworks with respective numbers painted on the funnels.

Coastal (Controlled) Minelayer.

LINNET

Builders:	Ardrossan Dockyard Co., Ltd.
Launched:	3 May 1938
Displacement:	560 tons (610 tons *full load*)
Dimensions:	145 (*pp.*), 163½ (*o.a.*) × 27½ × 8 feet
Guns:	1—20 mm. AA., 2 M.G.
Machinery:	Triple expansion, by Ferguson Bros., Ltd. I.H.P.: 400 = 10.5 kts.
Complement:	24

Notes.—Built as a coastal minelayer under 1936 Estimates. Employed as Static Pulsing Vessel. Sister ship *Redstart* was a war loss.

A/S and M/S Trawlers.

(Anti-Submarine, Minesweeping, Wreck Dispersal, Danlaying,).

34 " Isles " Class.

FETLAR. 1953 *J. W. Kennedy.*

3 Ardrossan Dockyard Co

COLL (Apr. 7, 1942)
GORREGAN (Dec. 30, 1943)
GRAEMSAY (Aug. 3, 1942)

1 George Brown & Co.

DAMSAY (June 27, 1942)

1 Canadian Yard

GATESHEAD (Aug. 5, 1942)

5 Cochrane & Sons

FETLAR (July 10, 1941)
IMERSAY (Aug. 21, 1944)
ORONSAY (Oct. 30, 1943)
ORSAY (Jan. 1, 1945)
RONAY (Feb. 15, 1945)

15 Cook, Welton & Gemmell

ANNET (March 25, 1943)
BERN (May 2, 1942)
BRYHER (April 8, 1943)
FLATHOLM (May 8, 1943)
LINDISFARNE (June 17, 1943)
LUNDY (Aug. 29, 1942)
SANDRAY (Oct. 5, 1944)
SHILLAY (Nov. 18, 1944)
SURSAY (Dec. 16, 1944)
TAHAY (Dec. 31, 1944)
TOCOGAY (Feb. 7, 1945)
TRODDAY (March 3, 1945)
VACEASAY (March 17, 1945)
VALLAY (April 10, 1945)
WIAY (April 26, 1945)

1 Fleming & Ferguson

BARDSEY (July 7, 1943)

1 Goole S.B. & R. Co

TIREE (Sept. 6, 1941)

1 A. & J. Inglis

SWITHA (Apr. 3, 1942)

5 John Lewis & Sons

CALDY (Aug. 31 1943)
FOULNESS (March 23, 1943)
SKOMER (June 17, 1943)
STEEPHOLM (July 15, 1943)
TRONDRA (Oct. 4, 1941)

1 Henry Robb

SKYE (March 17, 1952)

Displacement:	545 to 560 tons (770 tons *full load*)
Dimensions:	150 (*p.p.*), 164 (*o.a.*) × 27½ × 14 feet
Guns :	1—12 pdr. AA., 3—20 mm. (Removed from those used for wreck dispersa land tank cleaning
Machinery:	Triple expansion. I.H.P.: 850 = 12 kts.
Boiler:	1 cylindrical
Coal:	183 tons

Notes.—Launch dates above. *Gateshead* was depot ship for *XE* craft (midget submarines), *Annet, Flatholm* and *Steepholm* serve as DVs, *Gorregan* is leader of 30Ist Auxiliary Minesweeping Flotilla. *Bern, Fetlar, Graemsay, Tiree* and *Lindisfarne* are A/S Trawlers; *Damsay*, Wreck Dispersal Carrier. Others serve in 1st M/S Experimental Flotilla; as Mine Location Vessels; as tenders to TAS School, *HMS Vernon*; in local flotillas, and as Danlayers, etc. Four transferred to R.N.Z.N., and six to Portuguese Navy; others lent to Italy. *Bardsey*, R.F.A., *Coll* and *Switha* have been converted to oil-fuel-tank-cleaning vessels. War losses: *Broro, Campobello, Canna Flotta, Gairsay, Ganilly, Orfasy, Ryso, Stronsay, Wallasea.*

SKYE. 1953, *Skyfotos.*

GATESHEAD 1951, *Wright & Logan.*

1 " Shakespearian " Class.

ROSALIND

Builders :	A. & J. Inglis
Launched :	3 May, 1941
Displacement :	545 tons *standard* (770 tons *full load*)
Dimensions :	150 (*pp.*), 164 (*o.a.*) × 27½ × 11 feet
Guns :	1—4 inch AA., 2—20 mm. AA.
Machinery :	Triple expansion. I.H.P. : 950 = 12 kts.
Boiler :	1 cylindrical

Notes.—Minesweeper. At Mombasa. Transferred to Kenya R.N.V.R. The East African Naval Force was inaugurated by the Governor of Tanganyika and the acting Governor of Kenya at Mombasa in July 1950.

Fast Patrol Boats.

"Bold" Prototypes.

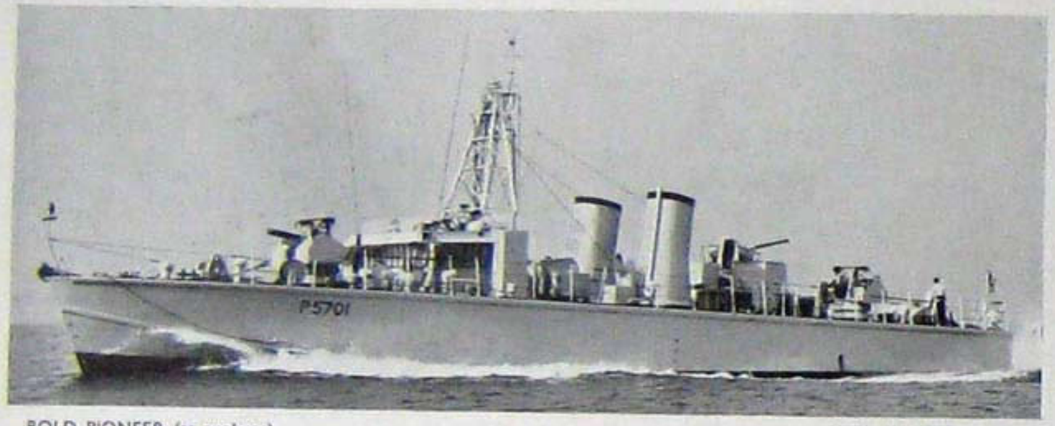
(Convertible Gunboats or Torpedo Boats.)

BOLD PATHFINDER (as gunboat). 1953, *courtesy Messrs. Vosper Ltd. (Builders).*

BOLD PATHFINDER *(ex-MTB 5720)*

Builders :	Vosper Ltd., Portsmouth
Launched :	17 Sep. 1951
Completed :	Feb. 1953
Dimensions :	117 (pp.), 122½ (o.a.) × 20⅓ × 6⅞ feet
Guns : (as gunboat)	2—4·5 inch, 1—40 mm. Bofors AA.
Tubes : (as torpedo boat)	4—21 inch
Machinery :	2 G.2 gas turbines. S.H.P. : 9,000 in combination with 2 diesels. B.H.P. : 5,000
Complement :	18

Notes.—Experimental development of M.T.B. type largely of light alloy construction with round bilge hull form and twin funnels of almost square section. 4 screws and 4 rudders. Engines manufactured by Metropolitan-Vickers Electrical Co., Ltd., Manchester. Cost £357,000.



BOLD PIONEER (as gunboat). 1953, *Wright & Logan.*

BOLD PIONEER *(ex-MTB 5701)*

Builders :	J. Samuel White & Co., Ltd., (Cowes), Isle of Wight
Launched :	18 Aug. 1951
Completed :	Jan. 1953
Dimensions :	116½ (pp.), 121 (o.a.) × 25½ × 6½ feet
Guns :	2—4·5 inch, 1—40 mm. AA.
Tubes :	4—21 inch (as torpedo boat)
Machinery :	2 G.2 Metropolitan-Vickers Gas Turbines. S.H.P. : 9,000 and 2 Diesel Engines. B.H.P. : 5,000
Complement :	18

Notes.—Experimental twin-gas-turbine propelled torpedo boat largely of timber construction with hard chine hull form and round twin funnels. Novel main machinery arrangement. The gas turbines were developed from the Gatric engine which operated so successfully in *MTB 5559 (ex-MGB 2009)* in 1947. Cost £292,000. Above two craft are interchangeable as MTBs or MGBs.

Fast Patrol Boats—*continued.*

"Dark" aud "Gay" Class PTS.

(Interchangeable Motor Gunboats and Motor Torpedo Boats.)

GAY BOMBARDIER (as Motor Torpedo Boat). 1953, *courtesy Messrs. Vosper Ltd.*

GAY BOMBARDIER (as Motor Gunboat). 1953, *courtesy Messrs. Vospers, Ltd.*

DARK ADVENT	**DARK DEFENDER**	**GAY ARCHER**	**GAY CHARGER**	**GAY EXPLORER**
DARK ADVENTURER	**DARK EXPLORER**	**GAY BOMBADIER**	**GAY CHARIOTEER**	**GAY FIGHTER**
DARK ANTAGONIST	**DARK FIGHTER**	**GAY BOWMAN**	**GAY DRAGOON**	**GAY HERD**
DARK ARCHER	**DARK HERO**	**GAY BRUISER**	**GAY FENCER**	**GAY HUNTER**
DARK ATTACKER	**DARK HUNTER**	**GAY CARIBINEER**	**GAY FORESTER**	**GAY HORSEMAN**
DARK BOWMAN	**DARK INTRUDER**	**GAY CAVALIER**	**GAY CHASER**	**GAY INTRUDER**
DARK CAVALIER	**DARK INVADER**	**GAY CENTURION**	**GAY DEFENDER**	**GAY INVADER**
DARK CHASER				

Dimensions :	75¼ × 19¼ × — feet
Guns :	1—4·5 inch (as gunboat), 1 or 2—40 mm. AA. (as torpedo boat)
Tubes :	2 or 4—21 inch (as torpedo boat) above water
Machinery :	Packard engines
Complement :	14 (two officers, 12 ratings)

Notes.—Short motor torpedo boats. "Dark" group are of composite construction. "Gay" group are almost entirely of wooden construction. The hull incorporates structural members of water resistant plywood. Completed 1953. Cost £78,200 to £1000,000 each

300

Fast Patrol Boats—*continued.*

FPB 1602. 1950, *Wright & Logan.*

FPB 1602 (*ex-MTB 539*)

Builders:	Saunders Engineering & Shipyard, Ltd., Beaumaris
Launched:	22 Apr. 1948
Displacement :	50 tons
Dimensions:	75½ (*o.a.*), 72 (*pp.*) × 19½ × 5½ feet (*max.*)
Tubes:	4—18 inch
Machinery :	Packard engines. Speed with fixed pitch propellers : 42 kts. on trials.
Complement:	16 (3 officers, 13 ratings)

Notes.—Short motor torpedo boat built experimentally of aluminium alloy. Accepted by Royal Navy March 21, 1950. Cost £131,359 (official).

FPB 1601. 1952, *Wright & Logan.*

FPB 1601 (*ex-MTB 538*)

Builders:	Vosper Ltd., Portsmouth
Launched:	1 Sept. 1947
Displacement :	36 tons (45 tons *full load*)
Dimensions:	74½ (*o.a.*), 68 (*pp.*) × 20½ × 6 feet
Guns:	1—4·5 inch, 2—20 mm. AA.
Tubes:	4—18 inch
Complement:	15

Notes.—Short motor torpedo boat of wooden construction. Built to an experimental design. Completed 27 August 1948.

Fast Patrol Boats—*continued.*

FPB 1023. 1953, *Wright & Logan.*

FPB 1032. 1951, *J. W. Kennedy*

FPB 1002 (*ex-MTB 392*) **FPB 1025** (*ex-MTB 525*) **FPB 1027** (*ex-MTB 527*) **FPB 1032** (*ex-MTB 532*)
FPB 1024 (*ex-MTB 524*) **FPB 1026** (*ex-MTB 526*) **FPB 1029** (*ex-MTB 529*) **FPB 1033** (*ex-MTB 533*)

Displacement:	49 tons
Dimensions:	73 × 19½ × 5½ (*max.*) feet
Guns:	2—20 mm. AA. (forward), 4 M.G. (Some have 1—6 pdr.)
Tubes:	2—18 inch
Machinery :	3 Packard engines. B.H.P. = 3,960 = 36·5 kts. Sea speed : 30 kts.
Complement:	13

Notes.—Short motor torpedo boats built by Vosper, Ltd., Portsmouth. FPB 1032, which has a 4·5 inch gun forward (see photo), was in collision during a N.A.T.O. exercise off the Dutch coast on 28 March, 1950, with FPB 1030 which sank 30 miles off the Hook of Holland. FPB 1023 blew up and sank in Aarhus Harbour, Jutland, on 17 May 1953.

Fast Patrol Boats—*continued.*

FPB 5513. 1951, *Skyfotos.*

FPB 5516. 1951, *Wright & Logan.*

FPB 5511 (*ex-MTB 2011*) **FPB 5512** (*ex-MTB 2012*) **FPB 5513** (*ex-MTB 2013*) **FPB 5514** (*ex-MTB 2014*) **FPB 5515** (*ex-MTB 2015*) **FPB 5516** (*ex-MTB 2016*) **FPB 5517** (*ex-MTB 2017*) **FPB 5518** (*ex-MTB 2018*)

Displacement:	93 tons (113 tons *full load*)
Dimensions:	117 × 22½ × 4½ (*max.*) feet
Guns:	2—6 pdr., 6—20 mm. AA., 1 rocket projector (5517 and 5514 have 1—4·5 inch)
Tubes:	4—18 inch
Machinery:	3 V12 Packard engines, supercharged. 3 shafts. B.H.P.: 4,050 = 31 kts. Sea speed: 26 kts.
Complement:	30

Notes.—Long motor torpedo boats, Camper & Nicholsons Type. FPB 5517 is fitted out as a Control Boat for Coastal Forces. FPB 5513 disarmed with derrick mainmast 1952. FPB 5514 is a " convertible " MTB/MGB. The experimental FPB 5559 (ex-MGB 2009, ex-MTB 2009), the gas turbine prototype and the first naval vessel powered by a gas turbine to go to sea, originally of the same type as FPB 5511-5518, was discarded in 1953.

Fast Patrol Boats—*continued.*

FPB 5008. 1951, *Wright & Logan.*

FPB 5002 (*ex-MTB 5002*) **FPB 5005** (*ex-MTB 5005*) **FPB 5007** (*ex-MTB 5007*) **FPB 5008** (*ex-MTB 5008*) **FPB 5009** (*ex-MTB 5009*) **FPB 5015** (*ex-MTB 5015*) **FPB 5020** (*ex-MTB 5020*)

Displacement:	102 tons (118 tons *full load*)
Dimensions:	115 (*o.a.*) × 21½ × 5½ feet
Guns:	2—6 pdr., 2—20 mm. AA., 8 M.G., 1 or 2 rocket projectors (5007 and 5008 have 1—4·5 inch)
Tubes:	2—21 inch
Machinery	4 Packard engines. B.H.P.: 5,000 = 30 kts. Sea speed: 27 kts.

Notes.—Long motor torpedo boats, modified Fairmile " D " Type. FPB 5008 has mounted two short 4·5 inch guns, one forward and one aft. FPB 5009 mounts experimentally a 17-pdr. gun.

FPB 5035. 1951, *Wright & Logan.*

FPB 5001 (*ex-MTB 780*) **FPB 5003** (*ex-MTB 790*) **FPB 5031** (*ex-MTB 758*) **FPB 5032** (*ex-MTB 779*) **FPB 5033** (*ex-MTB 785*) **FPB 5035** (*ex-MTB 793*) **FPB 5036** (*ex-MTB 794*) **FPB 5037** (*ex-MTB 795*)

Displacement:	102 tons (118 tons *full load*)
Dimensions:	115 (*o.a.*) × 21½ × 5 feet
Guns:	2—6 pdr. (forward and aft), 2—20 mm. AA., 8 M.G. (not now mounted)
Tubes:	4—18 inch
Machinery:	4 Packard engines. B.H.P.: 5,000 = 29 kts. Sea speed: 25 kts.
Complement:	30

Notes.—Long motor torpedo boats, Fairmile " D " type. Original displacement (on trials) was 91 tons, later much increased, FPB 5001 has reversible twin screws. FPB 5036 mounts 2—4·5 inch guns.

Fast Patrol Boats—*continued.*

10 "Power" Boats.

PROUD LEGIONARY. 1953, *Wright & Logan.*

FPB 1570 (ex-570)
PROUD FUSILIER P 1505 (ex-MTB 505)
PROUD GRENADIER P 1506 (ex-MTB 506)
PROUD GUARDSMAN P 1507 (ex-MTB 507)
PROUD HIGHLANDER P 1508 (ex-MTB 508)
PROUD KNIGHT P 1509 (ex-MTB 509)
PROUD LANCER P 1519 (ex-MTB 519)
PROUD LEGIONARY P 1522 (ex-MTB 522)
PROUD PATRIOT P 1596 (ex-MTB 596)
PROUD PATROLLER P 1598 (ex-MTB 598)

Displacement:	44 tons (52 tons *full load*)
Dimensions:	71½ × 20½ × 5½ (*max.*) feet
Guns:	1—6 pdr. (forward), 2—20 mm. AA., 4 M.G. in some
Tubes:	2—18 inch
Machinery:	3 Packard engines. B.H.P.: 4,050 = 39 kts. Sea speed: 32 kts.
Complement:	17

Notes.—British Power-Boat Type. Of other boats of this type MTB 756 is attached to Humber Division, R.N.V.R., at Hull, and MTB 727, 730, 761, 772, 775 are attached to Sea Cadet Corps at Twickenham, Thames, Chelmsford, Chelsea and London, respectively.

2 "S" Boats.

FPB 5208 (ex-MTB 5208, ex-S 208)
FPB 5212 (ex-MTB 5212, ex-S 212)

Displacement:	100 tons
Tubes:	2—19·7 inch
Machinery:	3 Mercedes-Benz 20-cyl. V-banked engines (of type 518 in S 208 and 1 of type 511 in S 212 with 2 2,500 B.H.P. Napier Deltic 18-cyl. marine diesel engines H.P.: 9,000 = 33 kts., and 7,500 = 36 kts., respectively

Notes.—Ex-German Motor Torpedo Boats. Built by Levsen, Vegesack. Retained for experimental purposes.

6 Controlled Target Boats.

CT 8101 (ex-CT 101) **CT 8102** (ex-CT 102) **CT 8103** (ex-CT 103) **CT 8104** (ex-CT 104)
Machinery: 3 Packard engines. B.H.P.: 3,750

Note.—Controlled Target Boats. Built by J. Samuel White & Co. Ltd., Cowes, Isle of Wight.

CT 8044 (ex-CT 44) **CT 8045** (ex-CT 45)

Notes.—Fast Target Towing Craft. Built by Vospers, Ltd., Portsmouth.

Radio Control Boats.

RCB (EL) 2 (ex-CT 46) **RCB (EL) 1** (ex-MTB 457) **RCB 8204** (ex-FPB 1580, ex-MTB 480) **RCB 8205** (ex-FPB 1588, ex-MTB 488)

Notes.—Radio Control Boats.

Fast Patrol Boats—*continued.*

Anti-Submarine Type.

FPB 3053. 1953, *Skyfotos.*

FPB 3001. 1951, *J. W. Kennedy.*

FPB 3001 (ex-MTB 731) **FPB 3002** (ex-MTB 753) **FPB 3050** (ex-MTB 5010) **FPB 3053** (ex-MTB 5013)

Displacement:	102 tons (120 tons *full load*)
Dimensions:	115 × 21½ × 5 feet
A/S Weapons:	32 D.Cs.
Machinery:	4 Packard engines. B.H.P.: 5,000 = 29 kts.
Complement:	30

Notes.—Motor Anti-Submarine Boats. Fairmile "D" Type. First two on A/S training, last two on Special Service for Prototype of A/S trials.

Steel Gunboat Type.

GREY GOOSE (ex-SGB 9) S 309

Builders:	J. Samuel White & Co., Ltd., Cowes
Laid down:	23 Jan. 1941
Launched:	14 Feb. 1942
Completed:	4 July, 1942
Displacement:	205 tons *standard* (260 tons *full load*)
Dimensions:	137½ (*pp.*), 145½ (*o.a.*) × 20 × 5½ feet
Machinery:	2 Rolls-Royce R.M. 60 gas turbine propulsion units. H.P.: 12,000
Oil fuel:	50 tons

Notes.—This type was an experimental Coastal Forces design of which *Grey Goose* is the sole survivor. Originally engined by Metropolitan-Vickers single reduction geared steam turbines. S.H.P.: 8,000 = 35 kts. Taken in hand for conversion 1952. War loss: SGB 7. Others sold or scrapped. SGB 1 and SGB 2 ordered but not completed. *Grey Seal* (ex-SGB 3) discarded 1948.

Coastal Minesweepers.

60 "Ton" Class (*New Construction*) M 1101 Series.

CONISTON. 1953, *courtesy J. I. Thornycroft & Co., Ltd. (Builders).*

ALCASTON
ALFRISTON
ALVERTON
AMERTON
APPLETON
BEACHAMPTON
BEVINGTON
BICKINGTON
BILDESTON
BLAXTON
BOULSTON
BRERETON
BRINTON
BRONINGTON
BURNASTON
BUTTINGTON
CALTON
CARHAMPTON
CAUNTON
CHEDISTON
CHILCOMPTON
CLARBESTON
CONISTON
CRICHTON
CUXTON
DALSWINTON
DARLASTON
DERRITON
DUFTON
DUNKERTON
EDERTON
EMBLETON
ESSINGTON
FENTON
FITTLETON
FLOCKTON
FLORISTON
GAMSTON
GAVINTON
GLASSERTON
HAZLETON
HEXTON
HIGHBURTON
HICKLETON
HODGESTON
HUBBERSTON
ILMINGTON
ILSTON
INVERMORISTON
IVESTON
JACKTON
KEDLESTON
KELLINGTON
KELTON
KEMERTON
KIRKLISTON
LALESTON
OULSTON
SEFTON
SHOULTON

6 *J. I. Thornycroft & Co., Ltd., Woolston, Southampton*
4 *Camper & Nicholsons, Ltd., Southampton*
2 *Camper & Nicholsons, Ltd., Gosport*
3 *Goole Shipbuilding & Engineering Co., Ltd., Goole*
5 *Whites Shipyard (Southampton), Ltd., Itchen, Southampton*
5 *J. S. Doig (Grimsby), Ltd., Grimsby*
4 *Richards Ironworks, Ltd., Lowestoft*
2 *William Pickersgill & Sons Ltd., Southwick, Sunderland*
2 *Harland & Wolff, Ltd., Belfast*
4 *Cook, Welton & Gemmel, Ltd., Beverley, East Yorks.*
4 *Fleetlands Shipyard, Ltd., Gosport*
2 *Wivenhoe Shipyard, Ltd., Wivenhoe, Essex.*
3 *Montrose Shipyard, Ltd., Montrose, Angus*
1 *Herd & MacKenzie, Buckie, Banffshire*
1 *The Dorset Yacht Co., Ltd., Hamworthy, Dorset*
2 *Philip & Son, Ltd., Dartmouth*

Dimensions :	140 (pp.), 152 (*o.a.*) × 28½ feet
Guns :	3 small
Machinery :	Diesels. 2 shafts
Complement :	26

Notes.—Officially announced that the main machinery of these vessels will be manufactured by Mirrlees, Bickerton & Day, Ltd., Stockport, but also officially announced that the allocation of machinery between these ships is provisional and may be subject to modification. High speed diesels, incorporating the best of wartime MMS and BYMS features and like the MMS aft. Twin screw and double mahogany hull. Generators replace the batteries carried in the MMS type of sweeper. These ships were to have been named after birds or insects but subsequently reverted to numbers, and finally were named after villages.

Coniston, the first vessel of the class to be completed (see photo), was accepted into H. M. service in February 1953. In addition to the 60 vessels named above, 16 more coastal minesweepers of this class are projected.

Inshore Minesweepers.

42 Type I ("Ham" Class) New Construction. M 2601 Series.

INGLESHAM. 1953. *Wright & Logan.*

ALTHAM
ARLINGHAM
ASHELDHAM
BASSINGHAM
BEDHAM
BISHAM
BLUNHAM
BODENHAM
BOREHAM
BOTTISHAM
BRANTINGHAM
BRIGHAM
BUCKLESHAM
CARDINHAM
CHELSHAM
CHILLINGHAM
COBHAM
CRANHAM
DARNERHAM
DARSHAM
DAVENHAM
DOWNHAM
DRITTISHAM
ELSENHAM
FRETTENHAM
EVERINGHAM
FELMERSHAM
FLINTHAM
FRITHAM
GREETHAM
HALSHAM
HARPHAM
HAVERSHAM
INGLESHAM
LASHAM
LITTLEHAM
MERSHAM
MICDLEHAM
MILEHAM
PETERSHAM
WARMINGHAM
WEXHAM

12 Type II ("Ley" Class) *New Construction.* M 2001 Series.

AVELEY
BREARLEY
BRENCHLEY
BRINKLEY
BROADLEY
BROOMLEY
BURLEY
CHAILEY
CRADLEY
DINGLEY
EDGELEY

6 *Brooke Marine, Ltd., Oulton Broad, Lowestoft*
3 *Camper & Nicholsons, Ltd., Gosport*
4 *J. Bolson & Sons, Ltd., Poole, Dorset*
2 *Ailsa Shipbuilding Co., Ltd., Troon, Ayrshire*
7 *J. Samuel White & Co., Ltd., Cowes, Isle of Wight*
1 *Vospers, Ltd., Portsmouth*
2 *Philip & Son, Ltd., Dartmouth*
2 *Berthon Boat Co., Ltd., Lymington*
1 *Ardrossan Dockyard, Ltd., Ardrossan*
2 *Herd & MacKenzie, Buckie, Banffshire*
4 *Jones (Buckie) Slip & Shipyard, Ltd., Buckie, Banffshire*
2 *Hugh McLean & Sons, Ltd., Renfrew*
3 *Fairlie Yacht Slip Co., Ltd., Fairlie, Ayrshire*
2 *Wm. Weatherhead & Sons Ltd., Cockenzie*
4 *Saunders Roe (Anglesey) Ltd., Anglesey*
1 *M. W. Blackmore & Sons, Ltd., Bideford*
1 *P. K. Harris & Sons, Ltd., Appledore*
1 *The Dorset Yacht Co., Ltd., Hamworthy*

Dimensions :	100 (pp.), 106½ (*o.a.*) × 21½ feet
Guns :	1 small
Machinery :	Diesel

Notes.—Officially announced that the main machinery of most of these vessels will be manufactured by Davey Paxman & Co., Ltd., Colchester, or by Ruston & Hornsby, Ltd., Lincoln, under licence from Davey Paxman, two by H.M. Dockyard, Chatham, and one by The English Electric Co., Ltd., Stafford. Designed to operate in shallow waters, such as rivers and estuaries. They are an entirely new type of vessel and they embody novel features resulting from lessons learned during the war and in the course of subsequent developments. Were to have been named after insects, with a colour before the actual species, but were then known by numbers and finally named after villages. First inshore minesweeper, the *Ingleshom* (see photo), was launched by J. Samuel White & Co., Ltd., Cowes, 23 April 1952. "Ham" class are of wooden construction and "Ley" class of composite construction In addition to the 48 vessels above, a number of inshore minesweepers will be built in British yards under the Unieed States Navy's off-shore procurement programme for allocation to N.A.T.O. countries, the contract being signed on 13 March 1953.

298

Motor Minesweepers.

126-ft. Type. 1001 Series.

MMS 1077. 1953, *Skyfotos.*

MMS 1002	**MMS 1011**	**MMS 1034**	**MMS 1044**	**MMS 1061**	**MMS 1089**
MMS 1003	**MMS 1017**	**MMS 1038**	**MMS 1048**	**MMS 1075**	**MMS 1090**
MMS 1004	**MMS 1030**	**MMS 1042**	**MMS 1060**	**MMS 1077**	

Displacement : 360 tons
Dimensions : 126 (pp.), 139½ (o.a.) × 26 × 10½ (mean), 12½ (max.) feet
Guns : 2—20 mm. AA., 2 M.G.
Machinery : Diesel B.H.P. : 500 = 10 kts.
Complement : 21

Notes.—"1,001" Series. Built of wood. MMS 1017, 1030, 1034, 1048, 1075, 1077, 1089, 1090 are employed as seagoing tenders to R.N.V.R. Divisions, and named *Curzon, Humber, Kilmorey, Graham, Mersey, Montrose, Killiecrankie, Bernicia,* respectively. MMS 1002, 1003, 1004, 1011 (wears Blue Ensign), converted to special duty as mobile wiping/deperming units.

Torpedo Firing Ship.

SAREPTA. 1951, *Wright & Logan.*

SAREPTA (ex-*Freida Peters*)

Launched: 1920
Displacement: 465 tons *standard*
Tubes : 4—21 inch

Notes.—Ex-German. Dual-purpose torpedo experimental vessel and torpedo-firing ship.

Motor Minesweepers—*continued.*

105 ft. Type. 1501 Series.

MMS 1791. 1952, *P. A. Vicary*

AMBER (ex-*MMS 222*)	**MMS 1557**	**MMS 1604**	**MMS 1717**	**MMS 1786**
MMS 1501	**MMS 1558**	**MMS 1605**	**MMS 1724**	**MMS 1788**
MMS 1505	**MMS 1569**	**MMS 1606**	**MMS 1728**	**MMS 1789**
MMS 1532	**MMS 1579**	**MMS 1609**	**MMS 1733**	**MMS 1790**
MMS 1534	**MMS 1583**	**MMS 1610**	**MMS 1736**	**MMS 1791**
MMS 1535	**MMS 1584**	**MMS 1635**	**MMS 1761**	**MMS 1794**
MMS 1536	**MMS 1586**	**MMS 1644**	**MMS 1763**	**MMS 1796**
MMS 1546	**MMS 1599**	**MMS 1667**	**MMS 1771**	**MMS 1797**
MMS 1548	**MMS 1600**	**MMS 1672**	**MMS 1772**	**MMS 1801**
MMS 1550	**MMS 1602**	**MMS 1681**	**MMS 1775**	**MMS 1807**
MMS 1553	**MMS 1603**	**MMS 1685**	**MMS 1783**	**MMS 1810**
MMS 1556			**MMS 1785**	**MMS 1813**

Displacement : 240 to 255 tons
Dimensions : 105 (pp.), 119 (*o.a.*) × 23 × 9½ feet
Guns : 2—20 mm. AA., 2 M.G.
Machinery : Diesel. B.H.P. : 500 = 10 kts.
Complement : 20

Notes.—Built of wood. 1,500 added to original numbers. *Amber* used on ferry service in Bermuda. MMS 1733, 1761, 1785 and 1789 are employed as tenders to South Wales, Severn and London R.N.V.R. Divisions, and named *St. David, Venturer, Isis* and *Thames* respectively. MSS 1717 is Mine Location Vessel. *Jade* (ex-MSS 223) sank in storm south-east of Bermuda, 25 Feb. 1951. MMS 1501, 1505, 1546, 1553, 1558, 1644, 1810 and 1813 were returned by Greece in 1952.

Torpedo Recovery Vessels.

Ex-Motor Minesweeper.

TRV 20 (ex-*MMS 1510*)

Notes.—Main particulars similar to the smaller motor minesweepers of the 1,500 to 1,800 series above.

TRV 1	**TRV 2**	**TRV 3**	**TRV 4**	**TRV 5**	**TRV 6**	**TRV 7**	**TRV 8**

Note.—*TRV 2* and *TRV 8* are on charter to private firms.

Inshore Minesweepers (Minesweeping Motor Launches.)

ML 2576. 1951, *A. & J. Pavia.*

ML 2154	ML 2220	ML 2250	ML 2360	ML 2493	ML 2575	ML 2583	ML 2595	ML 2901
ML 2155	ML 2221	ML 2337	ML 2461	ML 2564	ML 2576	ML 2585	ML 2866	ML 2906
ML 2156	ML 2223	ML 2338	ML 2462	ML 2567	ML 2577	ML 2586	ML 2869	ML 2912
ML 2196	ML 2237	ML 2342	ML 2489	ML 2568	ML 2581	ML 2592	ML 2882	ML 2919
ML 2217	ML 2248	ML 2357	ML 2491	ML 2571	ML 2582	ML 2593	ML 2886	ML 2921

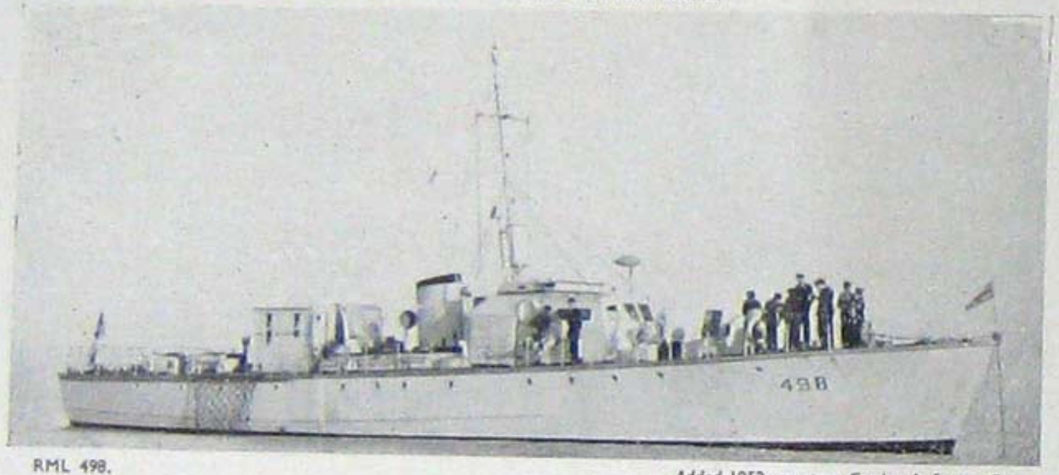
Displacement : 75 tons (85 tons *full load*)
Dimensions : 112 × 18½ × 5 (*max.*) feet
Machinery : 2 Hall-Scott Defender engines. B.H.P. : 1,200 = 20 kts. Sea speed 15·5 kts.
Complement : 16 to 18

Notes.—2,000 added to original numbers. Survivors of a series of nearly 400 MLs. Being converted into Inshore Minesweepers. *ML* 2592 is Mine Location Vessel. *ML* 138 (ex-Netherlands *A* 912, ex-*RY* 2, ex-*MV* 42), was returned 1953.

Motor Launches.

ML 6009	ML 6010	ML 6011	ML 6012	ML 6013	ML 6014

Notes.—Ex-German Air/Sea Rescue launches about 100 ft. Constitute the Rhine Flotilla.



RML 498. *Added 1952, courtesy Gordon A. Storey, Esq.*

RML 495	RML 496	RML 498	RML 512	RML 515	RML 529

Displacement : 85·6 tons
Dimensions : 112 × 18½ × 5 feet
Speed : 17·7 kts.
Complement : 16

Notes.—Rescue Motor Launches of Fairmile "B" Type.

Seaward Defence Boats.

ABERFORD	BRAYFORD	DESFORD	GIFFORD	HALFORD	KINGSFORD
AXFORD	BRYANSFORD	DROXFORD	GLASSFORD	HINKSFORD	MARLINGFORD
BECKFORD	CAMBERFORD	DUBFORD	GREATFORD	ICKFORD	SHALFORD

Dimensions : 110 (*pp.*), 117½ (*o.a.*) × 20 feet
Guns : 1 small
Machinery : Diesels
Complement : 18 (officially estimated)

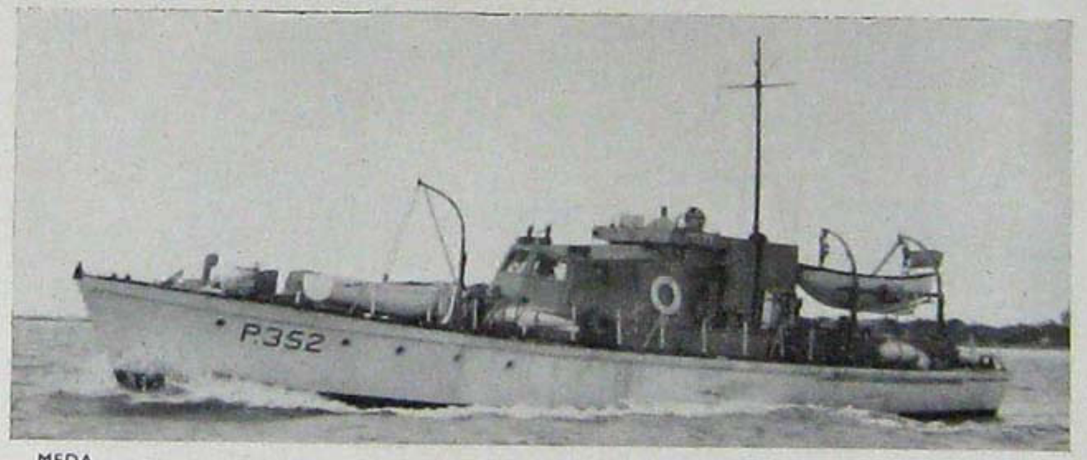
Notes.—3101 Series. Pendant Nos. P 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 3113, 3119, 3111, 3120, 3109, 3114, 3115, 3116 3121, 3123, respectively.

SDML 3515. 1953

SDML 1323	SDML 3328	SDML 3503	SDML 3507	SDML 3511	SDML 3514
SDML 1326	SDML 3501	SDML 3505	SDML 3508	SDML 3512	SDML 3515
SDML 1329	SDML 3502	SDML 3506	SDML 3510	SDML 3513	SDML 3516

Displacement : 46 tons (54 tons *full load*)
Dimensions : 72 (*o.a.*) × 15½ × 5½ feet
Guns : 1—3 pdr. or 1—40 mm. AA., 1—20 mm. AA.
Machinery : 2 Gardner Diesels. 2 shafts. B.H.P. : 260 to 320 = 11 to 12 kts.
Complement : 14

Notes.—Seaward Defence Motor Launches. Survivors of a series of about 490 Harbour Defence Motor Launches originally numbered *HDML* 1001 and upwards. *SDML* 3509 is lent to Malayan Naval Force. *SDML* 3501 and 3502 are temporarily lent to Malayan Marine Police.



MEDA. 1951, *J. W. Kennedy.*

MEDA (ex-*SML* 352, ex-*ML* 1301)	**SML 322** (ex-*ML* 1053)	**SML 324** (ex-*ML* 1085)	**SML 326** (ex-*ML* 1393)
SML 1 (ex-*ML* 1001)	**SML 323** (ex-*ML* 1081)	**SML 325** (ex-*ML* 1091)	**SML 327** (ex-*ML* 1411)

Notes.—Survey Motor Launches. *Meda* employed on South Coast Survey. Square cabin deckhouse built aft. White hull, buff funnel.

Submarine Depot Ships.

1949, *Wright & Logan*

ADAMANT

Builders :	Harland & Wolff, Ltd., Belfast
Laid down :	18 May 1939
Launched :	30 Nov. 1940
Completed:	28 Feb. 1942
Displacement :	12,700 tons (16,500 tons *full load*)
Dimensions :	646 (*pp.*), 658 (*o.a.*) × 70½ × 20 feet
Guns :	8—4·5 inch, 16—2 pdr., 4—40 mm., 10—20 mm., 4—3 pdr.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 8,000 = 17 kts.

Notes.—Submarine Depot Ship. Ordered under 1938 Estimates.

MONTCLARE. 1953, *Skyfotos.*

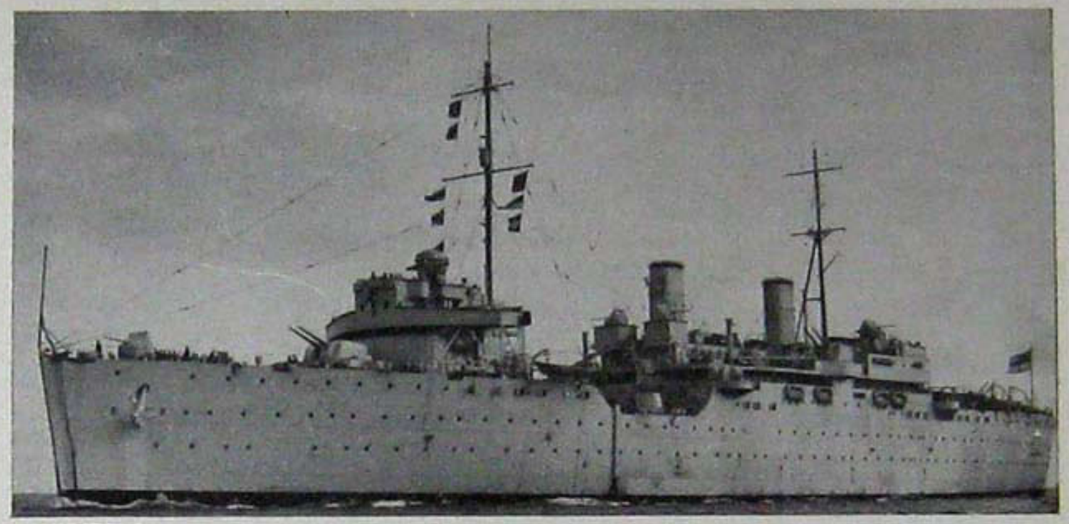
MONTCLARE

Builders :	John Brown & Co., Ltd., Clydebank
Launched:	1922
Displacement:	19,600 tons *standard* (21,100 tons *full load*)
Dimensions:	550 (*pp.*), 575 (*o.a.*) × 70 × 28 feet
Guns:	4—4 inch D.P., 19—20 mm.
Machinery:	Geared turbines. 2 shafts. S.H.P.: 12,500 = 17 kts.
Oil fuel:	2,250 tons
Complement:	480, including repair staff

Notes.—Former Canadian Pacific liner converted into a Destroyer Depot Ship in 1944, but re-converted to a Submarine Depot Ship after the war. Re-engined a few years before the war in 1939. Sister ship *Wolfe* (*ex-Montcalm*) was discarded in 1949.

Submarine Depot Ships—*continued.*

FORTH. 1953, *A. & J. Pavia.*



MAIDSTONE. 1950, *Wright & Logan.*

FORTH

MAIDSTONE

Displacement :	9,060 tons (*Forth*), 8,900 tons (*Maidstone*), 11,965 and 11,815 tons *full load*, respectively
Dimensions :	497 (*pp.*), 531 (*w.l.*), 574 (*o.a.*) × 73 × 20 (*mean*) feet
Guns :	8—4·5 inch, 2 multiple pompoms, 4—3 pdr., 4 smaller
Machinery :	Brown-Curtis geared turbines. 2 shafts. S.H.P. : 7,000 = 17 kts.
Complement :	502 (including 64 repair staff and 43 as spare submarine crew).

General Notes.—Depot Ships for Submarines. *Maidstone* ordered Aug. 17, 1936, under 1935 Estimates. *Forth* laid down under 1937 Estimates. Guns are in pairs, two forward, two aft and two sponsoned on either beam. Equipment includes a foundry ; coppersmiths', plumbers' and carpenters' shops ; heavy and light machine shops ; electrical and torpedo repair shops ; and plant for charging submarine batteries.

Appearance Notes.—*Maidstone* has light AA gun in bows. She now mounts a 4-inch gun on a submarine pattern mounting, for training purposes only, on the starboard side just aft of the midships 4·5 inch turret.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Forth	John Brown & Co., Ltd., Clydebank	30 June 1937	11 Aug. 1938	14 May 1939
Maidstone		1936	21 Oct. 1937	5 May 1938

Destroyer Depot Ships.

1949, *Abrahams.*

TYNE

Builders :	Scotts' S.B. & Eng. Co., Ltd., Greenock
Laid down:	15 July 1938
Launched :	28 Feb. 1940.
Completed :	28 Feb. 1941
Displacement :	11,000 tons (14,100 tons *full load*)
Dimensions :	621 (o.a.) × 66 × 20 feet
Guns :	8—4·5 inch, 8—2 pdr., 13—20 mm.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 7,500 = 17 kts.
Boilers :	4, of 3-drum type

Notes.—Destroyer Depot Ship. Built under 1937 Estimates. Equipment includes two furnaces, each capable of melting 500 lb. of metal at any temperature up to 1,500 degrees centigrade; a foundry and machine shops with milling and grinding machines.

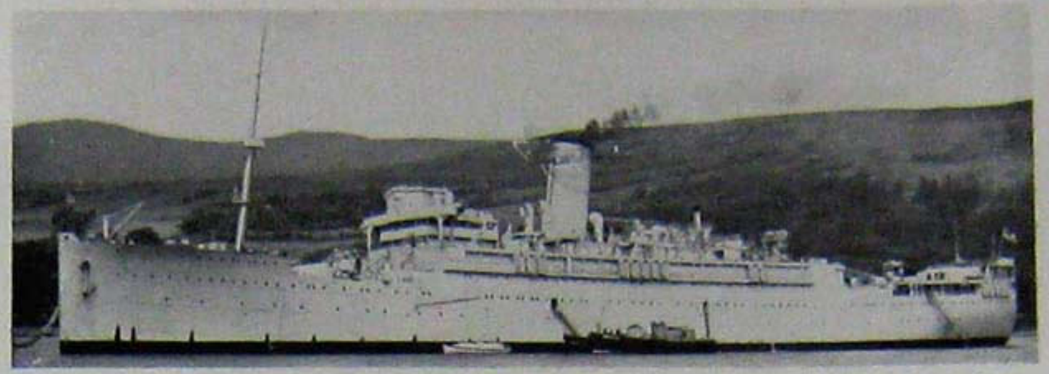
1951, *C. Parsons, Esq.*

WOOLWICH

Builders :	Fairfield Shipbuilding & Eng. Co., Ltd., Govan
Laid down:	24 May 1933
Launched:	20 Sept. 1934
Completed:	June 1935
Displacement:	8,750 tons (9,500 tons *full load*)
Dimensions:	575 × 64 × 14¾ (*mean*) 16½ (*max.*) feet
Guns:	4—4 inch AA., 2—2 pdr.
Machinery:	2 sets single reduction geared turbines. 2 shafts. S.H.P.: 6,500 = 15 kts.
Boilers:	4 Admiralty 3-drum type
Oil fuel:	1,170 tons
Complement:	406

Notes.—Depot ship for destroyers. Authorised under 1932 Estimates. Carries a full equipment of machine tools of the latest type.

Heavy Repair Ships.

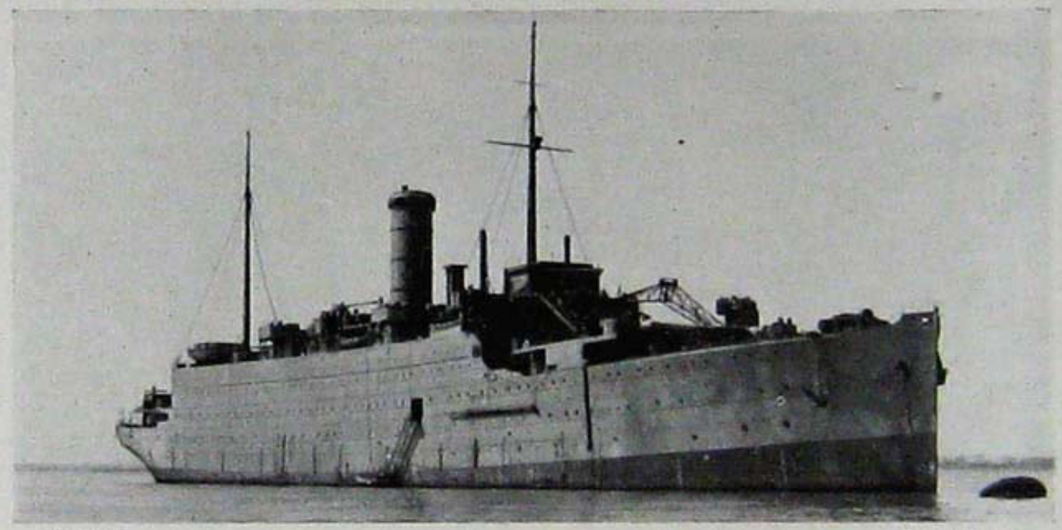


1952, *C. Parsons, Esq.*

RANPURA

Builders :	R. & W. Hawthorn, Leslie & Co., Ltd., Hebburn
Launched:	1925
Displacement:	16,120 tons (18,250 tons *full load*)
Dimensions:	548¼ (pp.), 570 (o.a.) × 71¼ × 28¼ feet
Machinery :	Quadruple expansion steam reciprocating engines. 2 shafts. I.H.P. : 15,000 = 17 kts.
Boilers :	6 D.E.
Oil fuel:	2,370 tons

Notes.—Former P & O.. liner converted into a Heavy Repair Ship in 1945. Sister ship of armed merchant cruiser *Rawalpindi* requ sitioned for naval service and sank in gallant action against German battleship *Scharnhorst* 1939.



AUSONIA. 1951, *P. A. Vicary.*

ALAUNIA **AUSONIA**

Displacement :	19,000 to 20,760 tons *full load*
Dimensions :	519¾ (*pp.*), 538 (*o.a.*) × 65¼ × 31½, *Alaunia* 32⅔ (*max.*) feet
Guns:	Numerous 20 mm. AA.
Machinery:	Geared turbines. 2 shafts. S.H.P.: 8,500 = 15 kts.
Oil fuel :	*Alaunia* 2,245 tons, *Ausonia* 2,287 tons

Notes.—Former Cunard liners converted into Heavy Repair Ships. *Alaunia* is training ship for engine-room ratings at Devonport.

Name	*Builders*	*Launched*
Alaunia	John Brown & Co., Ltd., Clydebank	1925
Ausonia	Armstrong Whitworth	1921

Maintenance Ships.

2 "Mull" Class.

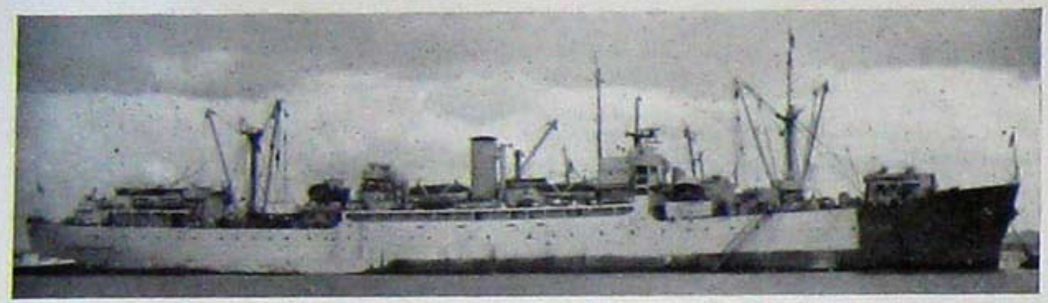
MULL OF KINTYRE. Added, 1948.

MULL OF GALLOWAY (*ex-Kinnaird Head*) **MULL OF KINTYRE**

Displacement:	10,200 tons
Dimensions:	416 (w.l.), 441 (o.a.) × 57 × 30 feet
Guns:	16—20 mm. AA.
Machinery:	Triple expansion. I.H.P.: 2,500 = 11 kts.

Notes.—Launched in Canada, 1944. *Mull of Galloway* is Motor Craft Maintenance Ship, *Mull of Kintyre* is Armament Maintenance Ship.

3 "Head" Class.



BERRY HEAD. Added 1953, *C. Parsons, Esq.*

BERRY HEAD **DUNCANSBY HEAD** **RAME HEAD**

Displacement:	8,580 tons
Dimensions:	439 × 62 × 29 feet
Guns:	16 to 32—20 mm. AA.
Machinery:	Triple expansion. I.H.P.: 2,500 = 11 kts.
Boilers:	2 Foster-Wheeler

Notes.—Built at Vancouver, B.C. All launched 1944-45. Escort Maintenance Ships. *Cape Wrath*, Coastal Forces Maintenance Ship, and *Portland Bill*, Armament Maintenance Ship, were disposed of. *Beachy Head*, returned from Royal Netherlands Navy, in which she served as *Vulkaan*, and *Flamborough Head* of this class now belong to the Royal Canadian Navy.

Landing Ship Maintenance Ships.

DODMAN POINT **HARTLAND POINT**

Displacement:	8,580 tons
Dimensions:	439 × 62 × 29 feet
Machinery:	Triple expansion. I.H.P.: 2,500 = 11 kts.

Landing Craft Maintenance Ships.

BUCHAN NESS **GIRDLE NESS**

Displacement:	8,580 tons
Dimensions:	439 × 62 × 29 feet
Machinery:	Triple expansion. I.H.P.: 2,500 = 11 kts.

Headquarters Landing Ships.

MEON. 1953, *J. W. Kennedy*

MEON **WAVENEY**

Displacement:	1,460 tons *standard* (1,865 tons *full load*)
Dimensions:	301½ (o.a.) × 36½ × 12 feet
Guns:	3—40 mm., 4—20 mm.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 5,500 = 20 kts.
Boilers:	2 Admiralty 3-drum type

Notes—Originally "River" class frigates, see an earlier page. *Meon* and *Waveney* were converted from original frigate type to "Landing Ship Headquarters (Small)." *Exe*, which served as a frigate during the war, was earmarked for fitting as L.S.H.(S) in 1949.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Meon	A. & J. Inglis, Ltd., Glasgow	31 Dec. 1942	4 Aug. 1943	31 Dec. 1943
Waveney	Smith's Dock Co. Ltd., South Bank-on-Tees	8 Oct. 1941	30 April 1942	16 Sept. 1942

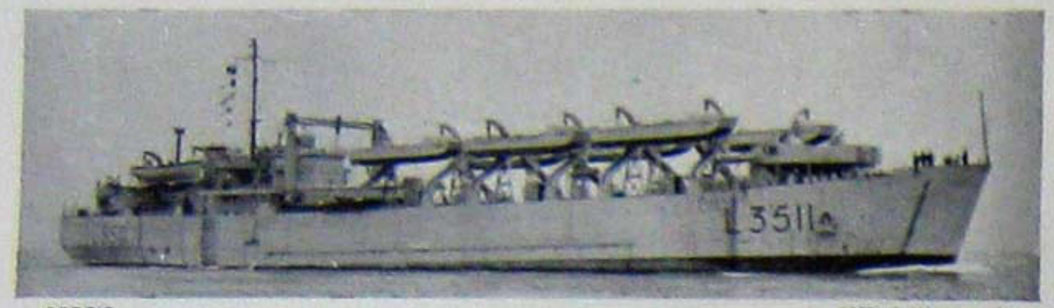
Tank Landing Ships.

NARVIK. 1952, *A. & J. Pavia.*

MESSINA (ex-*LST* (*C*) 3043) **NARVIK** (ex-*LST* (*C*) 3044)

Displacement:	2,256 tons *light* (4,980 tons *full load*)
Dimensions:	345½ (*o.a.*) × 54 × 4½ (forward), 11½ (*max.*) (aft) feet (Beaching draughts)
Guns:	10—20 mm. Oerlikon AA.
Machinery:	Triple expansion steam reciprocating. 2 shafts. I.H.P.: 5,500 = 13 kts.

Tank Landing Ships—*continued.*



REGGIO. 1952, *J. W. Kennedy.*

DIEPPE (ex-*LST* (3) 3016) **SALERNO** (ex-*LST* (3) 3513) **WALCHEREN** (ex-*LST* (3) 3525)
LOFOTEN (ex-*LST* (3) 3027) **SUVLA** (ex-*LST* (3) 3518) **ZEEBRUGGE** (ex-*LST* (3) 3532)
REGGIO (ex-*LST* (3) 3511)

Note.—Reggio was the first LST (A) i.e. Landing Ship Tank (Assault). Ships of LST (3) type have been allocated for conversion to LST (A).]

TRACKER. *Added 1953, A. & J. Pavia.*

ATTACKER (ex-*LST* (3) 3010) **HUNTER** (ex-*LST* (3) 3042) **TRACKER** (ex-*LST* (3) 3522)
BRUIZER (ex-*LST* (3) 3025) **STALKER** (ex-*LST* (3) 3515) **TROUNCER** (ex-*LST* (3) 3523)
CHARGER (ex-*LST* (3) 3026) **STRIKER** (ex-*LST* (3) 3516) **TRUMPETER** (ex-*LST* (3) 3524)
FIGHTER (ex-*LST* (3) 3038)

Note.—Striker is LST (A). *Searcher* scrapped. *Avenger* transfered to India. *Smiter* wrecked off Lagos April 25, 1949.

ANZIO (ex-*LST* (3) 3003) **PURSUER** (ex-*LST* (3) 3504) **THRUSTER** (ex-*LST* (3) 3520)
BATTLER (ex-*LST* (3) 3015) **RAVAGER** (ex-*LST* (3) 3505) **TROMSO** (ex-*LST* (3) 3006)
CHASER (ex-*LST* (3) 3029) **ST. NAZAIRE** (ex-*LST* (3) 3517) **VAAGSO** (ex-*LST* (3 3019)
PUNCHER (ex-*LST* (3) 3036) **SLINGER** (ex-*LST* (3) 3510)

LST (3) 3031 **LST (3) 3033**

*Note.—*These two are AA. Firing Ships.

BEN LOMOND. *Added 1953, courtesy Lieut. P. Court, R.N.V.R.*

BEN LOMOND (L 3102, ex-*LST* (*Q*) 2, ex-*LST* (3) 3013) **BEN NEVIS** (L 3101, ex-*LST* (*Q*) 1 ex-*LST* (3) 3012)

*Notes.—*All above ships have particulars in common with *Messino* and *Norvik* (see previous page). LST (3) 3001, 3009, 3021, 3024, 3028, 3037 and 3509 are on charter to War Office, while LST (3) 3041, 3507, 3512, 3519 and 3534 are on commercial charter : they are available for recall in emergency. LST (3) 3002, 3007, 3020, 3502, 3503 and 3506 are on loan to the Royal Hellenic Navy.

Major Landing Craft.

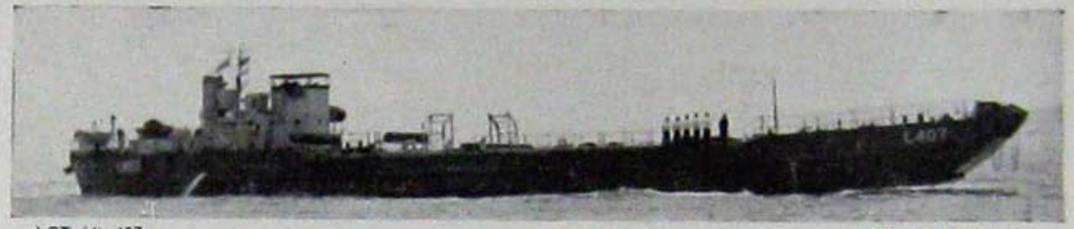
LCT (8) 4039. 1951, *Wright & Logan.*

LCT (8) 4001	**LCT (8) 4040**	**LCT (8) 4049**	**LCT (8) 4073**	**LCT (8) 4099**
LCT (8) 4002	**LCT (8) 4041**	**LCT (8) 4050**	**LCT (8) 4074**	**LCT (8) 4128**
LCT (8) 4025	**LCT (8) 4042**	**LCT (8) 4061**	**LCT (9) 4085**	**LCT (8) 4148**
LCT (8) 4037	**LCT (8) 4043**	**LCT (8) 4062**	**LCT (8) 4086**	**LCT (8) 4156**
LCT (8) 4038	**LCT (8) 4044**	**LCT (8) 4063**	**LCT (8) 4097**	**LCT (8) 4164**
LCT (8) 4039	**LCT (8) 4045**	**LCT (8) 4064**	**LCT (8) 4098**	**LCT (8) 4165**

Displacement : 895 tons (*loaded*)
Dimensions : 225 × 39 × 3½ (forward), 5 (aft) feet (Beaching Draughts)
Machinery : 4 Paxman engines. B.H.P. : 1,840 = 12·6 kts.

PELANDOK (ex-*LCT* (*E*) 341) **LCT (E) 413**

Note.—Pelandok is on loan to Malayan Naval Force.



LCT (4) 407. 1951, *Wright & Logan.*

LCT (4) 403 (ex-1220) **LCT (4) 405** (ex-523) **LCT (4) 407** (ex-1186)
LCT (4) 404 (ex-1231) **LCT (4) 406** (ex-941) **LCT (4) 408** (ex-1202)

Displacement : 586 tons (*loaded*)
Dimensions : 187½ × 33½ × 3½ (forward), 4½ (aft) feet
Machinery : B.H.P. : 920 = 10 kts.

*Note.—*Rhine Flotilla.

LCH 243 1953, *A. & J. Pavia.*

Minor Landing Craft.

51 LCM (7).

7,000 Series

Displacement :	63 tons *(loaded)*
Dimensions :	60½ × 16 × 3½ feet
Machinery :	B.H.P. : 290 = 9·8 kts.

Note.—There are 51 LCM (7)s ranging from No. 7007 to No. 7216.

286 LCA.

1,000 Series

Note.—There are 286 LCA's ranging from No. 1010 to No. 1992, not including 13 on loan to the Royal Hellenic Navy.

10 LCP (L).

500 Series

Note.—There are 10 LCP (L)s ranging from No. 519 to No. 561.

General Note.—Including those on loan to other navies and those on charter, there are 56 landing ships, all but 2 being of the LST(3) type. There are also 399 landing craft, including 38 LCTs, 1 LCH, 51 LCMs, 299 LCAs, and 10 LCPs.

Fleet Replenishment Ship.

Added 1950 *J. W. Kennedy.*

BULAWAYO (ex-*Northmark*, ex-*Nordmark*, ex-*Westerwald*)

Builders:	Schichau, Elbing
Laid down:	14 Nov. 1936
Launched:	5 Oct. 1937
Completed:	6 Jan. 1939
Displacement:	15,000 tons (22,500 tons *full load*), 10,847 tons gross register
Dimensions:	549 (*pp.*), 584 (*o.a.*) × 72½ × 30½ (*max.*) feet
Guns:	2—4 inch AA., 4—40 mm. Bofors AA., 2—20 mm. Oerlikon AA.
Machinery:	Double-reduction geared turbines. 2 shafts. S.H.P. (designed): 21,590 = 21 kts. exceeded with 23,065 H.P.)
Boilers:	2 Wagner
Oil fuel:	2,500 tons
Complement:	292

Notes.—Formerly German fast fleet attendant oiler and supply ship, seized as a naval prize. Possesses stowage for over 10,000 tons of oil fuel, 306 tons lubricant, and other stores, in addition to petrol, water and supplies of all kinds, including food and clothing Employed as Senior Officer's Ship, Fleet Train, 1947–48. Extensive refit 1948–49, being equipped with two cargo lifts. Reduced to Reserve 1950.

Fleet Supply Ships.

8 " Fort " Class.

FORT DUQUESNE. *1953, Lieut. Aldo Fraccaroli.*

FORT BEAUHARNOIS **FORT CONSTATINE** **FORT DUQUESNE** **FORT ROSALIE**
FORT CHARLOTTE **FORT DUNVEGAN** **FORT LANGLEY** **FORT SANDUSKY**

Displacement :	9,788 tons
Dimensions :	424½ × 57 × 27 feet
Machinery :	Triple expansion. I.H.P. : 2,500 = 11 kts.
Boilers :	2 Babcock & Wilcox

Notes.—All launched 1944. *Fort Beauharnois*, *Fort Charlotte*, *Fort Dusquene*, are Store-Issuing Ships. *Fort Rosalie* and *Fort Sandusky* are Armament Store Carriers. These ships are Royal Fleet Auxiliaries, except *Fort Langley* which is officially listed as a Merchant Fleet Auxiliary. They are similar in type to the Maintenance Ships of the " Mull " and " Head " classes, see earlier page.

Aircraft Transports.

SEAFOX. *1951, J. W. Kennedy.*

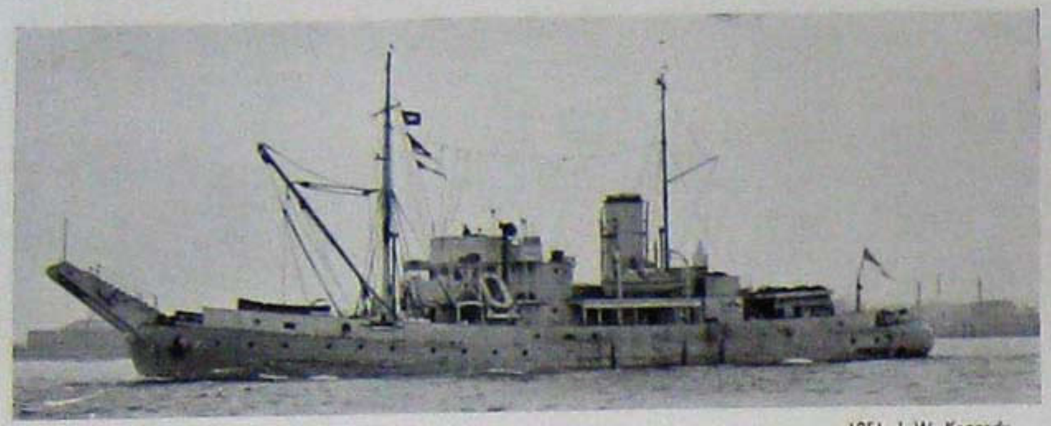
BLACKBURN **RIPON** **ROC** **SEAFOX** **WALRUS**

Displacement :	990 tons (1,500 tons *full load*)
Dimensions :	210 (*o.a.*) × 35 × 13¾ feet
Machinery :	Crossley 2-stroke Diesels. B.H.P. : 960 = 10·5 kts.
Oil fuel :	60 tons

Notes.—Rated as Aircraft Transports (Small). *Ripon* and *Seafox* built by James Pollock, Sons & Co., Ltd., Faversham, others by Blyth S.B. Co. Fitted with 6-ton and 12-ton derricks for handling aircraft. *Blackburn* has now become a seagoing tender for the Clyde Division R.N.V.R. *Seafox* is now a victualling store issue ship.

Boom Defence Vessels.

62 " Bar " Class.



BARNDALE. 1951, *J. W. Kennedy.*

4 Ardrossan Dockyard
BARBECUE (Dec. 19, 1944)
BARCAROLE (March 14, 1945)
BARHOLM (Dec. 31, 1942)
BARTIZAN (May 20, 1943)

14 Blyth D.D. & S.B. Co.
BARBAIN (Jan. 8, 1940)
BARBETTE (Dec. 15, 1937)
BARBICAN (March 14, 1938)
BARBOUR (April 9, 1941)
BARBROOK (May 28, 1938)
BARCASTLE (July 23, 1938)
BARCLOSE (July 9, 1941)
BARCOCK (Sept 3, 1941)
BARCOTE (Feb. 8, 1940)
BARDELL (Jan. 12, 1942)
BARDOLF (April 14, 1942)
BARLAKE (Sep. 16, 1940)
BARMILL (Oct 16, 1940)
BARNSTONE (Nov. 25, 1939)

5 Ferguson Bros.
BARBERRY (1943)
BARHILL (1942)
BARKIS (1945)
BARSPEAR (1943)
BARWIND (1943)

2 Hall, Russell
BARRAGE (Dec. 2, 1937)
BARRANCA (Jan. 18, 1938

4 Charles Hill
BARONIA (April 23, 1941)
BAROVA (July 5, 1941)
BARRICADE (ex-*Ebgate*, Feb. 7, 1938)
BARRIER (ex-*Bargate*, May 17, 1938)

2 Goole S.B. & R. Co.
BARCOMBE (July 28, 1938)
BARCROFT

7 John Lewis
BARFIELD (July 28, 1938)
BARFOOT (Sep. 25, 1942)
BARGLOW (Nov. 9, 1942)
BARILLA (Jan. 7, 1943)
BARLEYCORN (March 6, 1943)
BARNARD (July 1, 1942)
BARNEATH (Aug. 27, 1942)

7 Lobnitz
BARBRIDGE
BARCLIFF (ex-*Barwick*, May 10, 1940)
BARKING
BARLANE (June 27, 1938)
BARNDALE (Nov. 30, 1939)
BARNWELL (Feb. 13, 1940)
BARTHORPE (March 22, 1940)

4 Philip
BARBASTEL (1945)
BARFOIL (July 18, 1942)
BARITONE (1945)
BARON (1944)

13 Simons
BARBOURNE
BARFOAM
BARFORD
BARFOSS (Feb. 17, 1942)
BARFOUNT
BARLOW (Aug. 26, 1938)
BARMOND (Dec. 24, 1942)
BARMOUTH (Oct. 11, 1938)
BARNABY
BARRHEAD
BARRINGTON
BARSING
BARSOUND

Displacement:	750 tons (960 tons *full load*)
Dimensions:	150 (*pp.*), 173¾ (*o.o.*) × 32½ × 9½ feet
Guns:	1—3 inch AA. (war). Nil in majority in peace.
Machinery:	Triple expansion. I.H.P.: 850 = 11·75 kts.
Boilers:	2 S.E.
Complement:	32

Notes.—Built under 1935, 1936, 1937, 1939 and War Estimates. Launch dates above. Two transferred to South African Naval Force, and two to Turkey. *Barcock* was on charter to Belgium, but was returned to the Royal Navy Aug. 24, 1949. *Barilla* and *Barndale* used for Ship Target Trials, 1949–50. *Barstoke* transferred to Burma and *Barnehurst* to Netherlands. *Barglow* brought forward from reserve in 1951 and manned by civilian crew to survey wrecks in Dover Straits. War losses: *Barflake, Barlight.*

Boom Defence Vessels—*continued.*

10 " Net " Class.

MARTINET. 1951, *Wright & Logan.*

6 Blyth, D.D. & S.B. Co.
FALCONET (ex-*Barnham*, Dec. 5, 1938)
BOWNET (Jan. 19, 1939)
BURGONET (March 14, 1939)
DRAGONET (June 2, 1939)
SIGNET (May 3,1939)
SONNET (1939)

2 Smith's Dock
MAGNET (ex-*Barnsley*, Nov. 22, 1938)
MARTINET (ex-*Barnstone*, Dec. 8, 1938)
2 Lobnitz
PLANET (ex-*Barwell*, Dec. 26, 1938)
PLANTAGENET (ex-*Barwood*, Feb. 23, 1939)

Displacement:	530 tons *standard* (750 tons *full load*)
Dimensions:	135 × 30½ × 9 feet
Machinery:	Triple expansion. I.H.P.: 850 = 11·5 kts.
Boilers:	Cylindrical

Notes.—Authorised under 1937 and 1938 Estimates. Launch dates above. Machinery by North-Eastern Marine Engineering Co. Ltd., in *Bownet, Burgonet, Dragonet*; by White's Marine Engineering Co., Ltd., in *Signet, Sonnet*. War loss: *Bayonet.*

Boom Working and Mooring Vessels.

18 " Moor " Class.

MOORHEN. 1951, *J. W. Kennedy.*

MOORBURN
MOORCOCK
MOORDALE
MOORESS
MOORFIELD
MOORFIRE
MOORFLY
MOORFOWL
MOORGATE
MOORGRASS
MOORGRIEVE
MOORHEN
MOORHILL
MOORLAND
MOORMYRTLE
MOORPOUT
MOORSIDE
MOORSMAN

Displacement:	1,000 tons *standard*
Dimensions:	160 × 34 × — feet

Notes.—Employed as Boom Defence Vessels, Boom Working Vessels, Mooring Vessels and Salvage Vessels. Fitted with salvage pumps, air compressors and diving equipment.

Salvage Vessels.

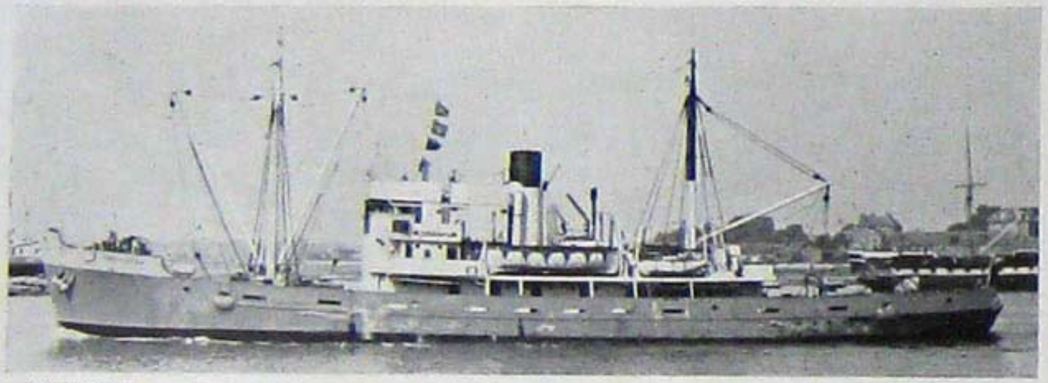
SWIN. 1951, *Wright & Logan.*

DISPENSER **KINGARTH** **LIFELINE** **SWIN**
KINBRACE **KINLOSS** **SUCCOUR** **UPLIFTER**

Displacement:	950 tons *standard* (1,050 tons *full load*)
Dimensions:	150 (*pp.*), 179½ (*o.a.*) × 39½ × 9½ (*mean*) 11 (*max.*) feet
Machinery:	Triple expansion. 1 shaft. I.H.P.: 600 = 9 kts.
Boilers:	1 return tube cylindrical (30 ton)
Complement:	34

Notes.—Uplifter, built by Smiths Dock Co. Ltd., based at Sheerness, is only vessel of this class wearing White Ensign. Laid down 13 Feb. 1943, launched 29 Nov. 1943, completed 6 Apr. 1944. *Lifeline* on charter to private firm. Remaining ships wear Blue Ensign (775 tons gross, 261·6 tons register).

"Salv" Class.



SALVICTOR. 1952, *C. Parsons.*

KING SALVOR **SALVAGE DUKE** **SALVESTOR** **SALVIOLA**
OCEAN SALVOR **SALVALOUR** **SALVICTOR** **SEA SALVOR**
PRINCE SALVOR **SALVENTURE** **SALVIGIL**

Displacement:	1,440 tons (1,700 tons *full load*)
Dimensions:	200½ (*pp.*), 216 (*o.a.*) × 37½ × 13 (*max.*) feet
Machinery:	Triple expansion. 2 shafts. I.H.P.: 1,500 = 12 kts.
Oil fuel:	310 tons
Complement:	52 to 72

Notes.—Prince Salvor launched March, 1943. *Salvage Duke* is on charter to Turkish Salvage Administration, who have renamed her *Imroz*. *Salventure* is on loan to Greece.

Salvage Vessels—*continued.*

SALVEDA

Displacement:	1,250 tons *standard* (1,360 tons *full load*)
Dimensions:	184 (*pp.*), 194 (*o.a.*) × 34½ × 11½ (*mean*) feet
Guns:	4—20 mm.
Machinery:	H.P.: 1,200 = 12 kts.
Oil fuel:	150 tons
Complement:	62

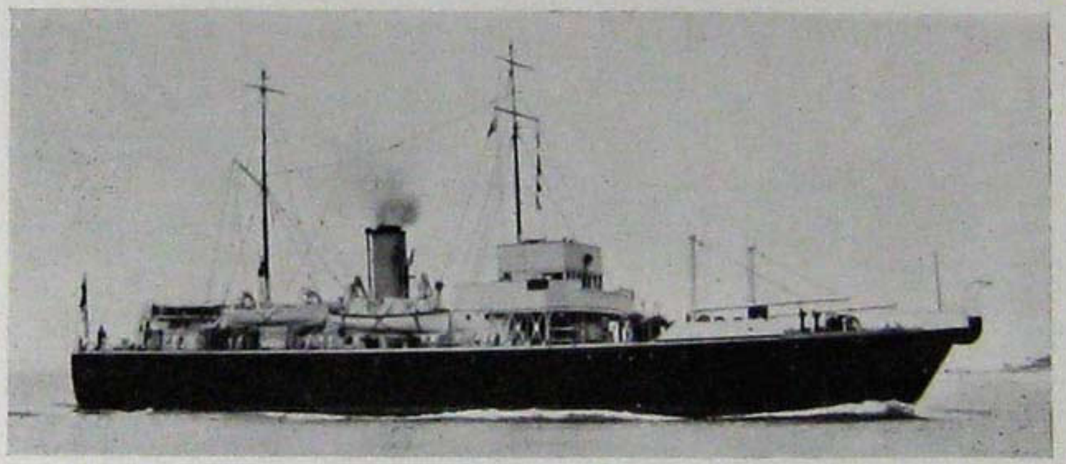
Cable Vessels.

BULLFINCH. 1951, *Abrahams.*

BULLFINCH (Aug. 19, 1940) **ST MARGARETS** (Oct., 1943)

Displacement:	1,524 tons *gross*
Dimensions:	252 (*o.a.*) × 36½ × 16½ (*mean*) feet
Guns:	1—4 inch, 4—20 mm. AA.
Speed:	12 kts.

Notes.—Both built by Swan, Hunter & Wigham Richardson, Ltd. Launch dates above. *Bullfrog* and *Bullhead* of this type, were transferred to Cable and Wireless service in 1947.



1951, *J. W. Kennedy.*

LASSO

Builders:	J. I. Thornycroft & Co. Ltd.
Launched:	17 Mar. 1938
Displacement:	903 tons
Dimensions:	180 (*pp.*), 205 (*o.a.*) × 35½ × 9½ feet
Machinery:	Triple expansion. I.H.P.: 1,100 = 13 kts.

Notes.—Built under 1936 Estimates. Recently employed as tender to Anti-Submarine School, Portland.

GREAT BRITAIN—Fleet Oilers

2 "Surf" Class.

SURF PATROL (ex-*Tatry*, 7 Feb., 1951) **SURF PIONEER** (ex-*Beskidy*, 23 Apr., 1951)

Measurement: 7,600 tons gross
Dimensions: 445 (pp.), × 60½ × 27¼ (*max.*) feet
Machinery: Doxford 4-cyl. Diesels. B.H.P.: 4,250 = 13·75 kts.

Notes.—Taken over by Great Britain whilst building by Bartram's, Sunderland, for Poland. 11,000 tons deadweight. (see photo right)

3 "Eddy" Class.

EDDYBEACH 1952, *courtesy Builders*

EDDYBAY (29 Nov. 1951) **EDDYBEACH** (24 Apr. 1951) **EDDYCLIFF** (1952)

Measurement: 2,300 tons gross
Machinery: Lobnitz triple expansion engines. I.H.P.: 1,750 = 12 kts.
Dimensions: 286 (*o.a.*) × 44 × 17½ (*max.*)

Notes.—Launch dates above. Built and boilered by Caledon Shipbuilding & Engineering Co., Ltd., Dundee. Deadweight capacity: 2,095 tons. *Eddycliff* commissioned Feb. 1953.

20 "Wave" Class.

WAVE MASTER. 1953, *Skyfotos.*

1 2 *Furness S.B. Co.*
WAVE BARON (ex-*Empire Flodden*, Feb. 19, 1946)
WAVE COMMANDER (ex-*Empire Paladin*, April 21, 1944)
WAVE CONQUEROR (ex-*Empire Law*, Nov. 27, 1943)
WAVE EMPEROR (Oct. 16, 1944)
WAVE GOVERNOR (Nov. 30, 1944)
WAVE LIBERATOR (ex-*Empire Milner*, Feb. 9, 1944)
WAVE PREMIER (June 27, 1946)
WAVE PROTECTOR (ex-*Empire Protector*, July 20, 1944)
WAVE REGENT (March 29, 1945)
WAVE RULER (ex-*Empire Evesham*, Jan. 17, 1946)
WAVE SOVEREIGN (Nov. 20, 1945)
WAVE VICTOR (ex-*Empire Bounty*, Sept. 30, 1943

3 *Harland & Wolff (Govan)*
WAVE CHIEF (ex-*Empire Edgehill*, April 4, 1946)
WAVE KING (April 6, 1944)
WAVE MONARCH (July 6, 1944)

5 *Laing*
WAVE DUKE (ex-*Empire Mars*, Nov. 16, 1944)
WAVE KNIGHT (ex-*Empire Naseby*, Oct. 22, 1945)
WAVE LAIRD (ex-*Empire Dunbar*, April 3, 1946)
WAVE MASTER (ex-*Empire Salisbury*, May 20, 1944)
WAVE PRINCE (ex-*Empire Herald*, July 27, 1945)

Displacement: 16,476 to 16,485 tons
Dimensions: 465½ (pp.), 492½ (*o.a.*) × 64½ × 28½ feet
Machinery: Double reduction geared turbines, of Metrovick type in *Wave Baron*, *Wave Chief*, *Wave Commander*, *Wave Conqueror*, *Wave Duke* and *Wave Laird*; Parsons type in others. S.H.P.: 6,800 = 15 kts.

Notes.—Launch dates above. Boilers of 3-drum type. Deadweight capacity, 11,900 tons. *Wave Liberator* has different type of bridge.

SURF PIONEER. 1953, *Skyfotos.*

4 Later "Ol" Class.

ROWANOL. 1951, *Lieut. Aldo Fraccaroli.*

BIRCHOL **OAKOL** **ROWANOL** (ex-*Cedarol* ex-*Ebonol*) **TEAKOL**

Displacement: 2,670 tons
Dimensions: 218 (pp.), 232 (*o.a.*) × 39 × 15¾ feet
Machinery: Triple expansion. I.H.P.: 1,140 = 11 kts.
Complement: 26

Notes.—All built by Lobnitz. Launched 19 Feb., 23 Aug., 15 May and 14 Nov. 1946, respectively. Deadweight capacity 1,050 tons.

1 Large Type.

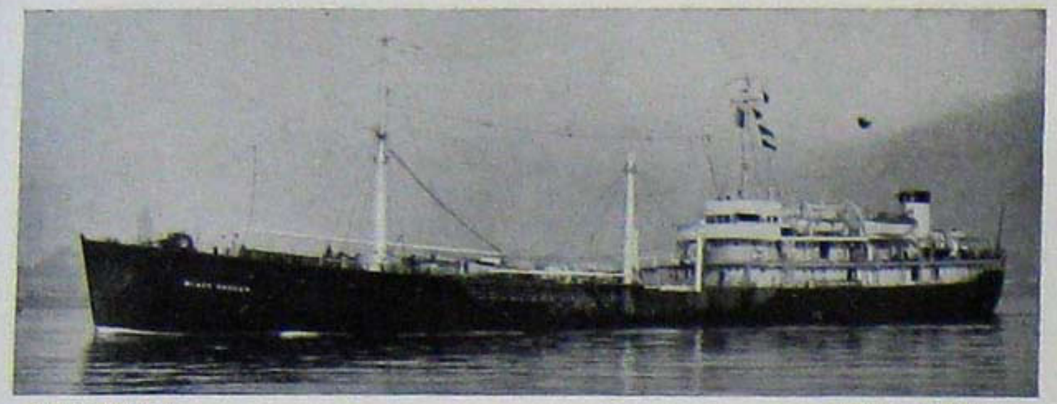
1953, *Skyfotos.*

OLNA

Displacement: 25,096 tons (*full load*)
Dimensions: 550 (pp.), 583½ (*o.a.*) × 70½ × 31⅛ feet
Guns: 1—4 inch AA., 4—40 mm. AA., 8—20 mm. AA.
Machinery: Turbo-electric. S.H.P.: 13,000 = 17 kts.
Boilers: 3 Babcock & Wilcox
Oil fuel: 2,130 tons
Deadweight capacity: 17,500 tons
Complement: 77

Notes.—Built by Swan, Hunter & Wigham Richardson, Ltd., Wallsend-on-Tyne. Launched 28 Dec. 1944. Deadweight capacity 17,500 tons

5 " Ranger " Class.



BLACK RANGER. 1951, *Wright & Logan.*

2 *Caledon S.B. Co.*
GOLD RANGER (March 12, 1941
GREEN RANGER (Aug. 21, 1941)

3 *Harland & Wolff (Govan)*
BLACK RANGER (Aug. 22, 1940
BLUE RANGER (Jan. 29, 1941)
BROWN RANGER (Dec. 12, 1940)

Measurement :	3,313 to 3,417 tons gross
Dimensions :	First two, 339½ (pp.), 355½ (o.a.) × 47 × 20 feet ; other three, 349½ (pp.), 365½ (o.a.)× 47 × 20 feet
Machinery :	Diesel. B.H.P. : 2,750 = 12 kts.

Notes.—Launch dates above. Funnel in these ships is on port side. All are fitted with special derrick on the beam to facilitate fuelling at sea. War loss : *Gray Ranger* (Caledon).

8 Later " Dale " Class.

ENNERDALE. 1950, *P. A. Vicary.*

1 *Blythswood S.B. Co.*
CEDARDALE (March 25, 1939)

1 *Cammell Laird*
DEWDALE (1941)

2 *Furness S.B. Co.*
EAGLESDALE (1942)
EASEDALE (Dec. 18, 1941)

2 *Harland & Wolff (Govan)*
DERWENTDALE (1941)
DINGLEDALE (1941)

1 *Hawthorn Leslie*
ECHODALE (1941)

1 *Swan Hunter*
ENNERDALE (1941)

Displacement :	17,000 tons
Dimensions :	460 (pp.), 483 (o.a.) × 59 × 27¼ (*mean*) feet
Machinery :	Burmeister & Wain 4-cycle Diesels. B.H.P. : 3,500 = 11·5 kts.
Deadweight capacity :	12,000 tons
Complement :	40

Notes.— Launch dates above. War losses : *Cairndale, Darkdale, Dinsdale* ex-*Empire Norseman*). In addition, *Denbydale* (ex-*Empire Silver*) was so badly damaged that she ceased to be sea-going.

4 Early " Dale " Class.

ARNDALE. 1952, *courtesy, Peter W McMillan, Esq.*

1 *Harland & Wolff (Govan)*
BROOMDALE (Sept. 2, 1937)

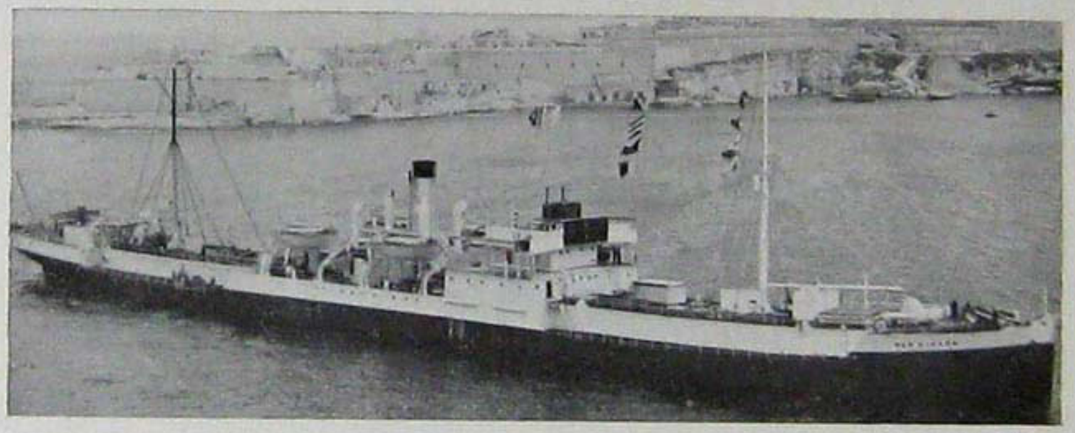
1 *Lithgows*
BISHOPDALE (March 31, 1937)

2 *Swan Hunter*
ABBEYDALE (Dec. 28, 1936)
ARNDALE (Aug. 5, 1937)

Displacement :	17,338 tons (*Broomdale*), 17,357 tons (*Bishopdale*), 17,210 tons (other two)
Dimensions :	464½ (pp.), 481½ (o.a.) × 62 × 27½ (*mean*) feet
Machinery :	Doxford Diesels in first 2, Burmeister & Wain in others. B.H.P. : 4,000 = 11·5 kts.
Own oil :	850 tons
Complement :	40

Notes.—Launch dates above. Deadweight capacity : 11,650 tons. *Arndale* reported 8,503 tons gross. War losses : *Aldersdale, Boardoe*

1 " War " Class.



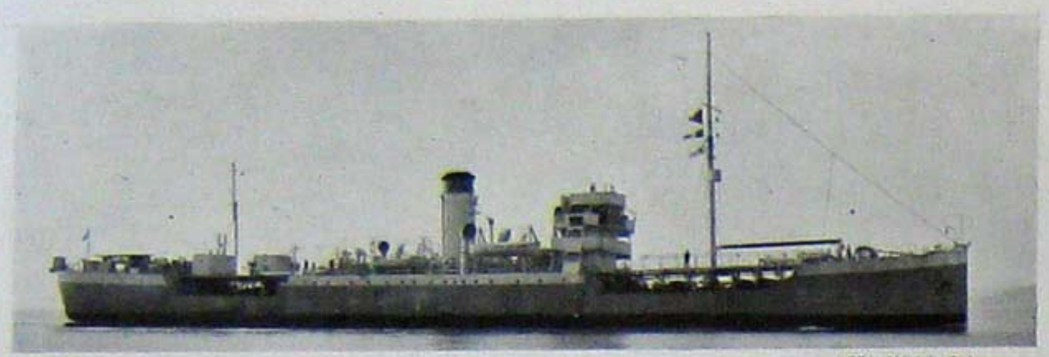
WAR HINDOO 1951, *A. & J. Pavia.*

Builders :	Wm. Hamilton & Co., Ltd., Port Glasgow
Launched :	1919
Displacement :	11,680 tons
Dimensions :	400 × 52½ × 25½ feet
Machinery :	Triple expansion. I.H.P. : 3,000 = 10 kts.
Boilers :	Cylindrical

Notes.—Deadweight capacity ,7,100 tons. War losses : *War Diwan, War Mehtar, War Sepoy, War Sirdar.* Others have been discarded.

Oilers—*continued.*

5 " OI " Class.



CELEROL. 1951, *Wright & Logan.*

BELGOL (Irvine's S.B. & D.D. Co.)
CELEROL (Short Bros.)
FORTOL (McMillan)
PRESTOL (Napier & Miller)
SERBOL (Caledon S.B. Co.)

Displacement:	5,049 to 5,660 tons
Dimensions:	335 × 41½ × 20½ feet
Machinery:	I.H.P.: 3,375 = 14 kts.
Boilers:	Cylindrical
Own oil:	300 tons
Deadweight capacity:	2,000 tons
Complement:	39

Notes.—All launched 1917. Builders in parentheses above. War losses : *Francol, Montenol, Slavol.*

6 Small " OI " Class.

LARCHOL. 1951, *Wright & Logan.*

1 Barclay Curle
BOXOL

2 Swan Hunter
ELDEROL
ELMOL

2 Lobnitz
LARCHOL
LIMOL

1 Tyne Iron S.B. Co.
PHILOL

Displacement:	2,365 to 2,400 tons
Dimensions:	220 × 34½ × 13½ feet
Machinery:	Triple expansion. I.H.P.: 700 = 9 kts.
Boilers:	Cylindrical
Own oil:	40 tons
Deadweight capacity:	1,000 tons
Complement:	19

Notes.—All launched 1917 except *Philol*, 1916. *Boxol* no longer in service at Gibraltar. War loss: *Birchol.*

Store Carrying and Distilling Vessel.

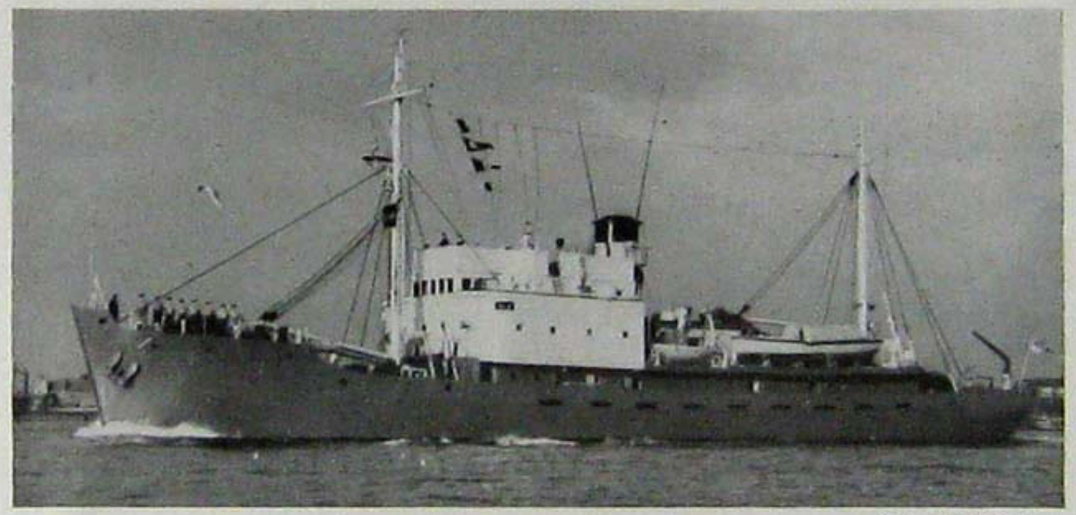
1951, *Skyfotos*

BACCHUS

Builders:	Caledon Shipbuilding & Engineering Co., Ltd.
Launched:	15 July 1936
Displacement:	5,150 tons *standard* (5,790 tons *full load*)
Dimensions:	320 (*pp.*), 337½ (*o.a.*) × 49 × 18 (*max.*) feet
Machinery:	Triple expansion. I.H.P.: 2,000 = 12 kts.
Boilers:	3 cylindrical
Oil fuel:	643 tons
Complement:	44

Note.—Equipped with distilling plant for supplying naval vessels with fresh water. Deadweight capacity: 3,300 tons.

Deep Diving Vessel.



1951, *J. W. Kennedy.*

RECLAIM (ex-*Salverdant*)

Builders:	Wm. Simons & Co., Ltd., Renfrew
Launched:	12 Mar. 1948
Displacement:	1,700 tons
Dimensions:	200 (*pp.*), 217½ (*o.a.*) × 38 × 13½ (*max.*) feet
Machinery:	Triple expansion by Aitchison Blair Ltd. 2 shafts. I.H.P.: 1,500 = 12 kts.
Complement:	84

Notes.—Tender to *Vernon* Establishment for deep-diving experiments; is also equipped for submarine rescue work. Refitted 1950.

Royal Yacht.

BRITANNIA

Builders:	John Brown & Co., Ltd., Clydebank
Launched:	16 Apr. 1953
Displacement:	4,000 tons (*approx.*) load
Dimensions:	Length: 413 feet (*o.a.*), 380 feet (*w.l.*). Beam: 55 feet. Draught.: 16 (*max.*) feet
Machinery:	Single reduction geared steam turbines. 2 shafts.
Boilers:	2
Speed:	21 kts. (*approx.*) continuous cruising speed

Notes.—Small naval hospital ship, used by Her Majesty The Queen in time of peace as a Royal Yacht. Endurance sufficient to enable her to undertake long ocean voyages. Three masts and one funnel. Construction conforms to mercantile practice. Replaces the *Victoria and Albert* which is now no longer seaworthy. Modified cruiser stern and raked bow. Fitted with stabiliser to reduce roll in bad weather.

Hospital Ship.

MAINE (ex-*Empire Clyde*, ex-*Leonardo da Vinci*)

Measurement:	7,515 tons gross
Dimensions:	429½ × 52 × — feet
Machinery:	6 double reduction geared turbines. 2 shafts
Speed:	12 kts.

Notes.—Launched 1925. Captured from Italians at Massawa and converted into a hospital ship in 1943. Became *Maine* 1 Jan. 1948. Has 300 beds.

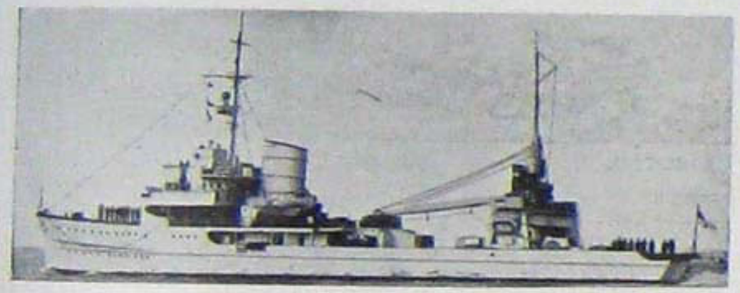
Fleet Headquarters Ship.

LADYBIRD (ex-*Wusueh*)

Builders:	Taikoo Dockyard, Hong Kong
Launched:	1931
Measurement:	3,009 tons gross

Notes.—Former river passenger ship converted in 1950 at Hong Kong to act as Headquarters Ship of the British Commonwealth Fleet. Equipped with the same communication facilities as a cruiser, housed the Fleet's operations staff, had a highly efficient map room, administered the supply of fuel, food, ammunition, mails and cine films to the ships of the Fleet, and arranged for their maintenance and repair. Now replaced by *Tyne*.

Tenders.



1946, *Wright & Logan.*

DEEPWATER (ex-*Walter Haltzapfel*)

Launched:	1940
Displacement:	1,200 tons
Dimensions:	246 (*pp.*), 260 (*o.a.*) × 38 × 11¼ (*mean*) feet
Machinery:	2 sets Sulzer Diesels. B.H.P.: 1,750 = 17 kts.
Complement:	61

Notes.—Ex-German deep diving ship. Relegated to harbour service at Portsmouth. Tender to *Vernon* for diving instruction. Now painted with black hull, red waterline and light grey upperworks but black funnel top.

Tenders—*continued.*

CLEARWATER (ex-*Lumme*)

Displacement:	62 tons
Dimensions:	85 × 15 × 4½ feet
Machinery:	6-cyl. Diesel. B.H.P.: 180 = 9·5 kts.
Complement:	9

Notes.—Ex-German. Tender to Torpedo and Anti-Submarine School, H.M.S. *Vernon*, Portsmouth. Employed as tug and tender to *Reclaim*.

DWARF

Builders:	Philip & Son, Ltd., Dartmouth.
Launched:	1936
Displacement:	172 tons
Dimensions:	83½ (*pp.*), 91 (*o.a.*) × 19 × 6½ (*mean*), 7 (*max.*) feet
Machinery:	2 sets triple expansion. I.H.P.: 350 = 9·25 kts.
Boiler:	1 cylindrical
Coal:	16 tons

Note.—Tender to Third Submarine Flotilla, Rothesay.

REDWING

Builders:	J. Samuel White & Co., Ltd., Cowes
Launched:	19 Oct. 1933
Displacement:	225 tons
Dimensions:	112 (*o.a.*) × 25 × 6¾ feet
Machinery:	2 sets triple expansion. I.H.P.: 250 = 9·5 kts.
Boiler:	1 cylindrical
Complement:	12

Note.—Tender to *Defiance*, Torpedo School, Devonport.

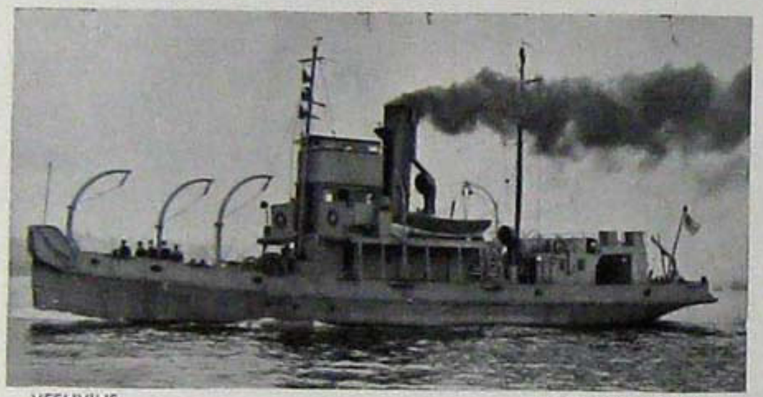
DIPPER (ex-*C 30*) **DIVER** (ex-*C 28*)

Displacement:	120 tons
Machinery:	Diesel. Speed: 9 kts.

Note.—Former German minelaying tenders, attached to 1st M/S Experimental Flotilla, H.M.S. *Lochinvar*, Port Edgar, as Mine Location Vessels. Launched 1940.

MVITA

Note.—Base ship at Kilindini (East African Naval Force).



VESUVIUS. 1947, *Wright & Logan.*

NIGHTINGALE (Sep. 30, 1931) **VESUVIUS** (ex-*Vernon*, ex-*Skylark*, Nov. 15, 1932)

Displacement:	298 and 302 tons, respectively
Dimensions:	*Nightingale*: 110 (*o.a.*) × 24½ × 7½ feet *Vesuvius*: 106½ (*o.a.*) × 24½ × 7½ feet
Machinery:	2 sets triple expansion. I.H.P.: 400 = 10 kts.
Boiler:	1 cylindrical
Coal:	15 tons
Complement:	15

Notes.—Both built at Portsmouth. Mining tenders to *Vernon* Establishment. Mainmast in *Vesuvius* removed 1950, in *Nightingale* 1951. Now painted with black hull, red waterline and light grey upperworks, but black funnels.

Naval Armament Carriers.

THROSK. 1952, *J. W. Kennedy.*

KINTERBURY **THROSK**

Displacement:	1,488 tons
Dimensions:	185 × 33 × 14½ feet
Machinery:	Triple expansion. I.H.P.: 900
Coal:	153 tons
Deadweight capacity:	769 tons

Notes.—Launched in 1943 and 1944, respectively. Both built by Philip & Son, Ltd.

CHATTENDEN

Builders:	Ailsa S.B. Co.
Launched:	1938
Displacement:	1,192 tons
Length:	230 feet
Capacity:	500 tons
Complement:	26 (Merchant Navy personnel)

Petrol Carriers.

2 "Sprite" Class.

AIRSPRITE. 1950 *Wright & Logan.*

AIRSPRITE (Dec. 22, 1942) **NASPRITE** (Nov. 28, 1940)

Measurement:	965 tons *gross*
Dimensions:	204½ × 33½ × 12½ feet
Machinery:	Triple expansion. I.H.P.: 900 = 11 kts.

Note.—Both built by Blythswood S.B. Co. Launch dates above.

PETROBUS

Builders:	Dunlop, Bremne
Launched:	1918
Displacement:	1,024 tons
Dimensions:	164 × 28 × 11½ feet
Machinery:	I.H.P.: 500 = 9 kts.
Boilers:	Cylindrical
Own oil:	50 tons
Deadweight capacity:	300 tons
Complement:	16

Store Carriers.

ROBERT DUNDAS (July 28, 1938) **ROBERT MIDDLETON** (June 29, 1938)

Displacement :	900 tons
Dimensions :	210 × 35 × 13¼ (*mean*) feet
Machinery :	Atlas Polar Diesel by British Auxiliaries Ltd., Govan. 1 shaft. B.H.P. : 960 = 10·5 kts.
Oil fuel :	60 tons
Deadweight capacity :	1,100 tons
Complement :	17

Note.—Both built by Grangemouth Dockyard Co. Ltd. Launch dates above

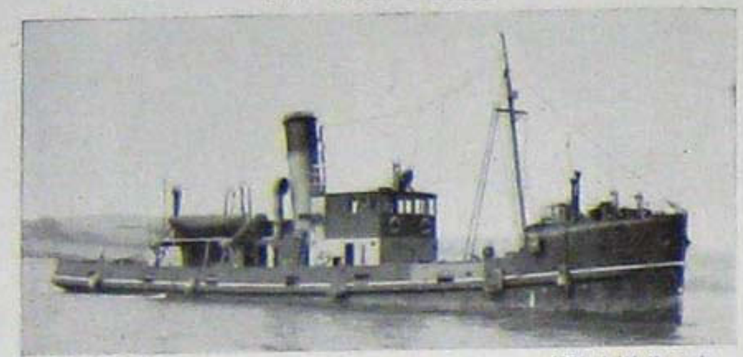
Water Carriers.

6 "Spa" Class.

2 *Charles Hill & Sons Ltd.* 4 *Philip & Son*
SPALAKE (Aug. 10 1946) **SPA** (Oct. 11 1941) **SPABROOK** (Aug. 24 1944)
SPAPOOL (Feb. 28 1946) **SPABECK** (June 21 1943) **SPABURN** (Jan. 5 1946)

Displacement:	1,219 tons
Dimensions:	160 (*pp.*), 163 (*o.a.*) × 30 × — feet
Machinery:	Triple expansion. I.H.P.: 675
Boiler:	1
Coal:	90 tons
Deadweight capacity:	500 tons

14 "Fresh" Class.



FRESHPOND. 1951, *J. W. Kennedy.*

FRESHBROOK **FRESHFORD** **FRESHPOND** **FRESHSPRING**
FRESHBURN **FRESHLAKE** **FRESHPOOL** **FRESHTARN**
FRESHENER **FRESHMERE** **FRESHSPRAY** **FRESHWATER**
FRESHET **FRESHWELL**

Displacement:	594 tons
Dimensions:	126½ × 25½ × 10½ (*max.*) feet
Machinery:	Triple expansion. I.H.P.: 450 = 9 kts.

Motor Fishing Vessels.

SQUIRREL (ex-*MFV 1151*) **WATCHFUL** (ex-*MFV 1080*)

Length:	75 feet
Guns :	1—0·5 inch M.G. aft (in *Watchful*)

Notes.—Fishery Protection Gunboats. Fitted with radar. Tenders to H.M.S. *Osprey*. Some 233 M.F.Vs. ranging from Nos. 2 to 1574 are employed on naval service, replacing drifters for various subsidiary duties in the Fleet and in the dockyards. They are of four types, viz.: MFV 2 to 436. Length: 61½ feet. 122 in service. MFV 609 to 995. Length: 45 feet. 73 in service. MFV 1003 to 1239. Length: 75 feet. 75 in service. MFV 1505 to 1574. Length: 90 feet. 13 in service. A few have unofficial names: *Anthony* (*MFV 1051*) *Escort* (*MFV 1204*), *Duckling* (*MFV 1179*), *Tailer* (*MFV 1531*). Latter name is official. *MFV 1044*, *1069*, *1156* are armed with 1—40 mm. Bofors forward (in place of mast) and 1—20 mm. Oerlikon on after superstructure. *MFV 1037* is Mine Location Vessel. *MFV 206* is at Kilindini (East Africa Naval Force). *MFV 189* is used for R.N.V.R. training in Mauritius. *Panglima* (ex-*MFV 154*) is at Singapore for Malayan R.N.V.R. training.

Fleet Tugs.

SAMSON

Dimensions :	180 × 37 feet

Notes.—Built by Alexander Hall & Co., Ltd., Aberdeen. Launched 14 May 1953.

"Envoy" Class.

ENCORE (Dec. 1944) **ENIGMA** (June, 1944)
ENFORCER (July, 1944) **ENVOY** (Feb., 1944)

Displacement:	868 tons (1,332 tons *full load*)
Dimensions:	174½ × 36 × 17 (*max.*) feet
Machinery:	Triple expansion. I.H.P. = 1,700 = 13 kts.
Boilers:	2 cylindrical
Oil fuel:	398 tons
Complement:	33

Notes.—All built by Cochrane & Sons, Ltd. Launch dates above. *Enticer* lost Dec. 21 1946.

"Bustler" Class.

REWARD. 1952, *A. & J. Pavia.*

BUSTLER (Dec. 4, 1941) **SAMSONIA** (April 1, 1942)
GROWLER (Sept. 10, 1942) **TURMOIL** (July 14, 1944)
MEDIATOR (June 21, 1944) **WARDEN** (June 28, 1945)
REWARD (Oct. 13, 1944)

Displacement:	1,118 tons (1,630 tons *full load*)
Dimensions:	190 (*pp.*), 205 (*o.a.*) × 41 × 13 (*mean*), 16 (*max.*) feet
Machinery :	2 Atlas Polar 8-cyl. Diesels. 1 shaft. B.H.P.: 4,000 = 16 kts
Oil fuel:	405 tons
Range :	17,000 miles
Complement:	42

Notes.—All built by Henry Robb, Ltd. War loss: *Hesperia*. *Samsonia* is again wearing the White Ensign after her chartering to a Canadian firm. *Growler* temporarily renamed *Caroline Moller*, while on long-term charter. Most of this class, including *Bustler* and *Turmoil*, have been chartered by commercial undertakings.

"Assurance" Class.

ADHERENT (ex-*Tenacity*, June 1940) **HENGIST** (Dec. 1941)
ALLIGATOR **JAUNTY** (June 1941)
ANTIC (March, 1943) **PROSPEROUS** (June, 1942)
ASSIDUOUS (June 1942) **RESTIVE** (Sept., 1940)
CAUTIOUS (ex-*Prudent*, Aug., 1940) **SAUCY** (Oct., 1942)
EARNER (ex-*Ernest*, July, 1943) **TRYPHON** (ex-*Stormking*, Nov., 1942)

Displacement :	700 tons (1,055 tons *full load*)
Dimensions :	157 × 45 × — feet
Machinery :	Triple expansion. I.H.P. : 1,350 = 12 kts.
Boiler :	1 cylindrical
Oil fuel :	262 tons
Complement :	31

Notes.—All built by Cochrane & Sons, Ltd. Launch dates above. War losses : *Adept*, *Adherent* *Assurance*, *Horsa*, *Sesame*.

Fleet Tugs—*continued.*

"Nimble" Class.

CAPABLE (Hall, Russell, Nov. 22, 1945) **EXPERT** (Fleming & Ferguson, 1944)
CAREFUL (A. Hall & Co., Oct. 23, 1945) **NIMBLE** (Fleming & Ferguson, Dec. 4, 1941

Displacement :	890 tons (1,190 tons *full load*)
Dimensions :	165 (*pp.*), 175 (*o.a.*) × 35½ × 13½ feet
Machinery :	Triple expansion. 2 Shafts. I.H.P. : 3,500 = 16 kts.
Boilers :	2, of 3-drum type
Oil fuel :	300 tons

Note.—*Capable* was fitted experimentally with reversible pitch propellers.

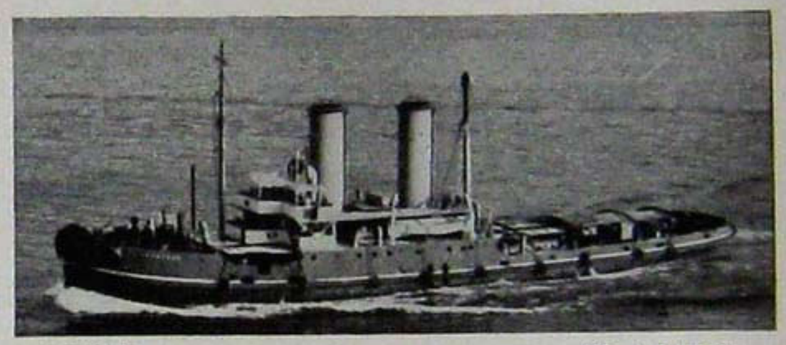
"Brigand" Class.

BRIGAND (July 8, 1937) **MARAUDER** (Nov. 9, 1938)
BRITON (ex-*Bandit*, Feb. 15, 1938) **FREEBOOTER** (Nov. 29, 1940)

Displacement :	840 tons (1,190 tons *full load*)
Dimensions :	165 (*pp.*), 174 (*o.a.*) × 32 × 10½ feet
Guns :	1—3 inch AA., 1—20 mm. AA., 2 Lewis
Machinery:	Triple expansion. 2 shafts. Designed H.P. : 3,000 = 15·5 kts.
Boilers :	2, of 3-drum type
Oil fuel :	390 tons
Complement:	43

Notes.—Built by Fleming & Ferguson, Paisley, under 1936, 1937, 1938 Estimates. Fitted for salvage work, and have towing winches for work with battle practice targets. *Buccaneer* sunk by accident during gunnery practice, Aug. 25, 1946.

"Rollicker" Class.



RESPOND. 1951, *A. & J. Pavia.*

RESPOND (Ayrshire D.Y. Co.) **ROLLICKER** (Ferguson Bros.)
RETORT (Day, Summers & Co.) **ROYSTERER** (Thornycroft)

Displacement :	1,400 tons (*full load*)
Dimensions :	175 × 34 × 17 (*max.*) feet
Machinery :	2 shafts. I.H.P. : 2,400 = 14 kts.
Complement :	24

Notes.—All launched 1918-19. Builders above. All on Harbour Service List. *Retort*, no Fx. deck. *Rollicker* was transferred to Nigerian Government, but was reacquired by Admiralty in March, 1934.

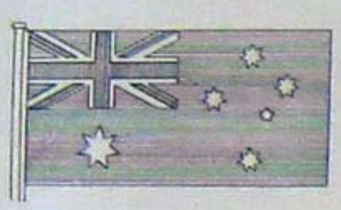
EMPIRE DEMON **EMPIRE IMP** **EMPIRE RITA**
EMPIRE EDWARD **EMPIRE NETTA** **EMPIRE ROSA**
EMPIRE FRED **EMPIRE PLANE** **EMPIRE TEST**
EMPIRE ZONA

Note.—Not all of same type.

ROYAL AUSTRALIAN NAVY

Flags.

GOVERNOR-GENERAL



JACK
(AUSTRALIAN BLUE ENSIGN)

NAVAL BOARD FLAG

Note.—White Ensign and Pendant flown as in H.M. Ships.

Administration.

Governor-General : Field Marshal Sir William Slim, G.C.B., G.B.E., D.S.O., M.C.
Minister of Defence : Hon. Sir Philip A. M. McBride, K.C.M.G., M.P.

Australian Naval Board.

President : Minister for the Navy, The Hon. William McMahon, M.P.
First Naval Member and Chief of Naval Staff : Vice-Admiral Sir John A. Collins, K.B.E., C.B., R.A.N.
Second Naval Member and Chief of Naval Personnel : Commodore (First Class) D. H. Harries, C.B.E., R.A.N.
Third Naval Member and Chief of Naval Construction : Eng. Rear-Admiral J. W. Wishart, O.B.E., R.A.N.
Fourth Naval Member and Commodore (Air) : Commodore E. O. F. Price, O.B.E., R.N.
Deputy Chief of Naval Staff : Captain O. H. Becher, D.S.O., D.S.C. & Bar, A.D.C., R.A.N.

Secretary, Dept. of the Navy : Thomas J. Hawkins, Esq., B.A., LL.B.
Secretary to Naval Board : Frank G. Cummins, Esq.

Liaison Officer, London: Capt. (S) J. B. Foley, C.B.E., A.D.C., R.A.N.
Naval Attaché, Washington : Captain G. C. O. Gatacre, D.S.C. & Bar, A.D.C., R.A.N.

Navy Estimates.

1949-50 : £18,500,000. 1950-51 : £23,500,000. 1951-52 : £34,444,000. 1952-53 : £47,290,000.

Uniforms.

Same as in Royal Navy (see Great Britain section, Page 1). Reserve Officers now wear the same kind of straight rank-designating stripes and curls on their cuffs and shoulder straps as officers of the permanent navy, but with the letter " R " inside the curl, instead of " wavy " stripes.

H.M. Australian Fleet.

Flag Officer Commanding H.M. Australian Fleet : Rear-Admiral J. W. M. Eaton, D.S.O., D.S.C. (lent from Royal Navy).

On Jan. 1, 1949 the Royal Australian Navy changed the title of His Majesty's Australian Squadron to His Majesty's Australian Fleet. On the death of King George VI and the accession of Queen Elizabeth II the title was altered to Her Majesty's Australian Fleet.

The Naval programme provides for the establishment of a strong and compact striking force of 36 ships with a reserve of 80 vessels. It will be capable of operating independently as a task force or in co-operation with Allied naval forces. It is intended that the R.A.N. will have 2 aircraft carriers, 3 cruisers, 9 destroyers, 11 fast frigates, 14 frigates, 28 ocean minesweepers, 4 coastal minesweepers, and miscellaneous small vessels.

Personnel.

1953 : 14,541 officers and ratings. The Women's Royal Australian Naval Service has been re-established. WRANS (total 1 Jan. 1953 : 271) are employed on clerical, communications, stores and other administrative duties.

New Construction.

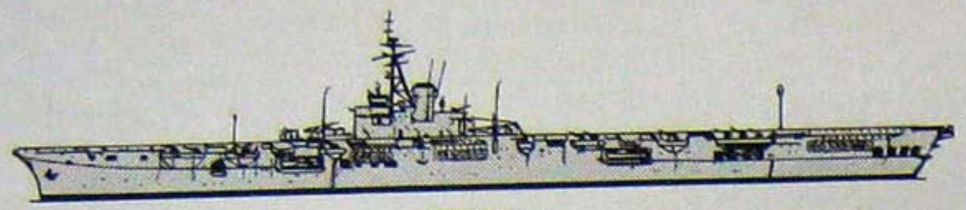
£A75,000,000 was allocated in 1947 for a 5-year Defence programme, including cost of : 2 new light fleet carriers transferred from R.N. (H.M.A.S. *Sydney* already delivered), and 6 destroyers, to be built in Australia (H.M.A.S. *Tobruk* and *Anzac* already commissioned).

In 1952 £A559,000,000 was allocated to Defence Departments to be spent on a three-year defence programme, under which the naval building programme will be greatly expanded. The Navy's allocation is £A137,000,000.

The new naval construction programme announced in 1952 includes 3 boom working vessels, four coastal minesweepers, and 4 seaward defence boats.

Mercantile Marine.

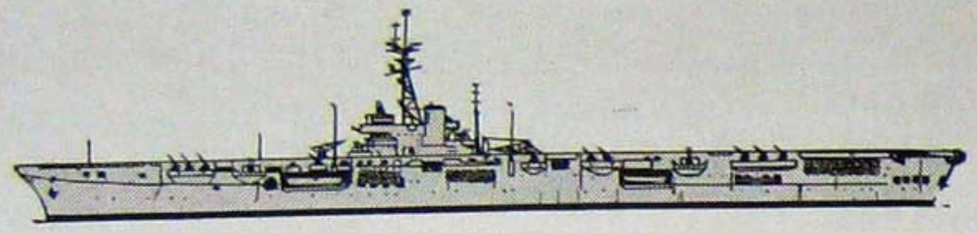
Lloyd's Register appendix, 1953 : 366 vessels of 564,659 tons gross.



SYDNEY. *

HOBART. (*under reconstruction.*)

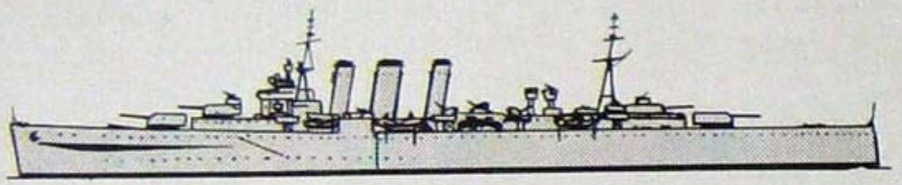
BARCOO *Class.**



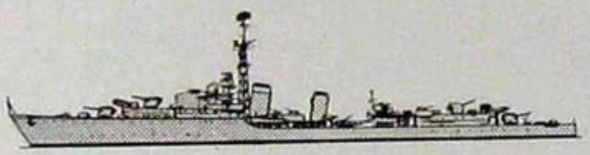
VENGEANCE *

ANZAC, TOBRUK *

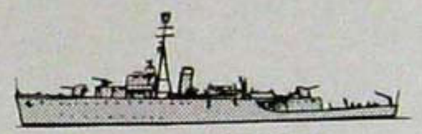
BARCOO *



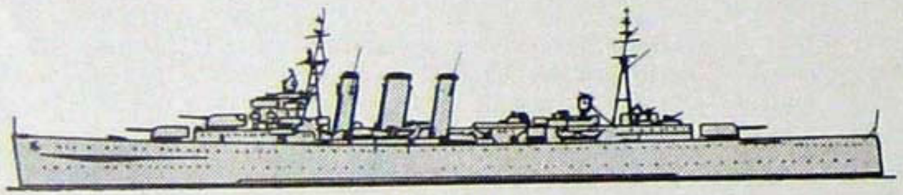
SHROPSHIRE. *



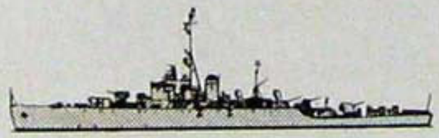
BATAAN.



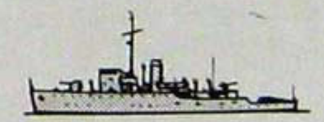
SWAN, WARREGO *



AUSTRALIA. *



MURCHISON. (SHOALHAVEN with S.L. abaft funnel.)



BATHURST *Class.* *

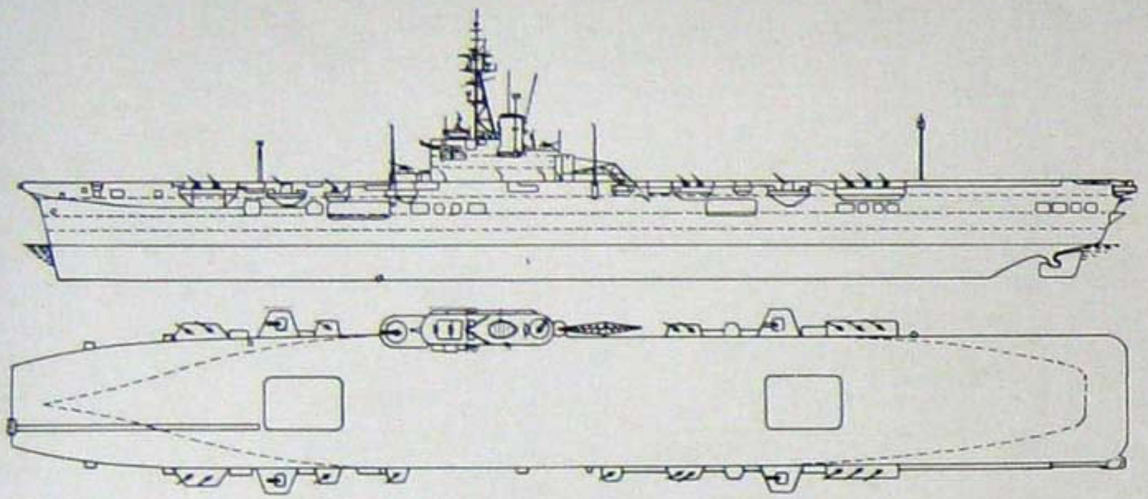
289R

Light Fleet Aircraft Carriers.

VENGEANCE. 1952, courtesy T. Rayner, Esq.

MELBOURNE (ex-*Majestic*) **SYDNEY** (ex-*Terrible*)

Displacement:	14,000 tons (*standard*), 19,550 tons (*full load*)
Dimensions:	Length: 630 (*pp.*), 690¾ (flight deck), 695 (*o.a.*) feet (including safety nets Beam: 80 feet. Draught: 25 feet. Width: 112½ feet (*o.a.*)
Guns:	30—40 mm. AA. (Bofors), 4—3 pdr. (saluting guns)
Aircraft:	Seafury fighters, Firefly anti-submarine and reconnaissance squadrons
Machinery:	Parsons single reduction geared turbines. 2 shafts. S.H.P.: 40,000 = 24·5 kts. (*designed*)
Boilers:	4 Admiralty 3-drum type
Complement:	1,343 (*war*), 1,100 (*peace*)



Notes.—*Sydney* handed over to R.A.N. Dec. 16, 1948, accepted for service Feb. 5, 1949, sailed from Devonport April 12, 1949, and arrived in Australia in May, 1949. *Melbourne* will be transferred to R.A.N. on completion. Owing to modifications in the design her delivery will be delayed. When she arrives in Australia the *Sydney* will go to Britain for reconversion on more modern lines, and all improvements in the *Melbourne* will be incorporated in her. Both ships are to be modified to allow them to operate jet aircraft and new anti-submarine aircraft. They will be fitted with the new steam catapults.

VENGEANCE

Displacement:	13,190 tons *standard* (18,040 tons *full load*)
Dimensions:	Length: 630 (p.p.), 693½ (*o.a.*) feet. Beam: 80 feet. Draught: 23¼ (*max.*) feet
Guns:	12—40 mm. AA., 32—20 mm. AA.

Notes.—Other particulars similar to *Sydney*. The British Government has lent Australia the *Vengeance* for about 4 years until the arrival of the Royal Australian Navy's second aircraft carrier *Melbourne* which is still under construction in Great Britain. The *Vengeance* was handed over to the R.A.N. at Devonport 13 Nov. 1952, left 7 Jan. 1953, and arrived Australia in March 1953.

Name	*Builders*	*Machinery*	*Laid Down*	*Launched*	*Completed*
Melbourne	Vickers-Armstrongs (Barrow)	Builders	15 Apr. 1943	28 Feb. 1945	Late 1945
Sydney	Royal Dockyard, Devonport	Parsons	19 Apr. 1943	30 Sep. 1944	5 Feb. 1949
Vengeance	Swan, Hunter & Wigham Richardson, Ltd.		16 Nov. 1942	23 Feb. 1944	15 Jan 1945

VENGEANCE 1953, *A & J. Pavia.*

SYDNEY. 1951, R.A.N., *Official.*

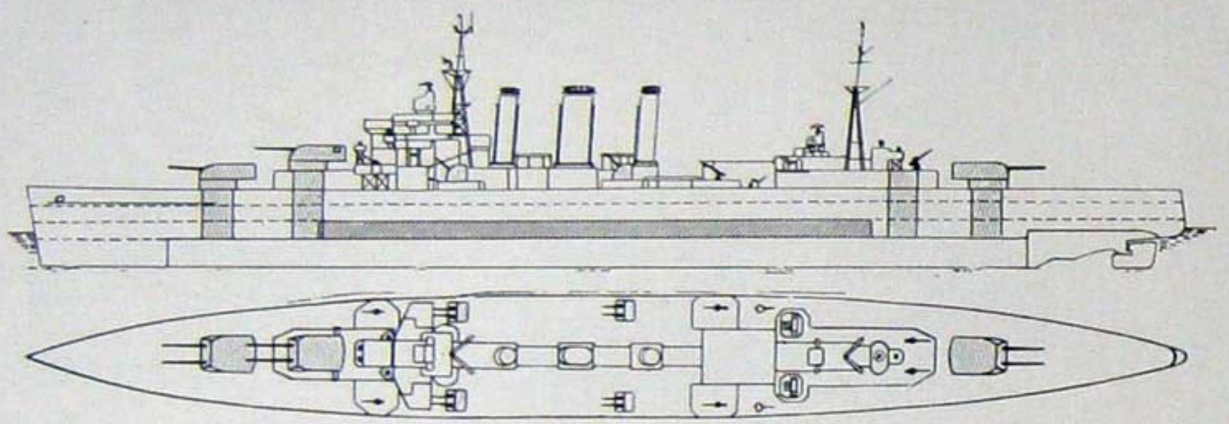
SYDNEY. 1950, R.A.N., *Official.*

Heavy Cruiser.

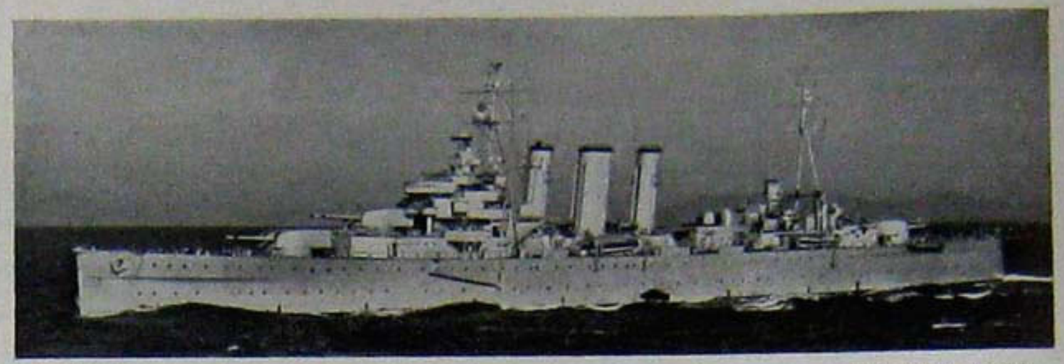
AUSTRALIA

Builders : John Brown & Co. Ltd., Clydebank
Laid down : 1925
Launched : 17 Mar., 1927
Completed : April 1928

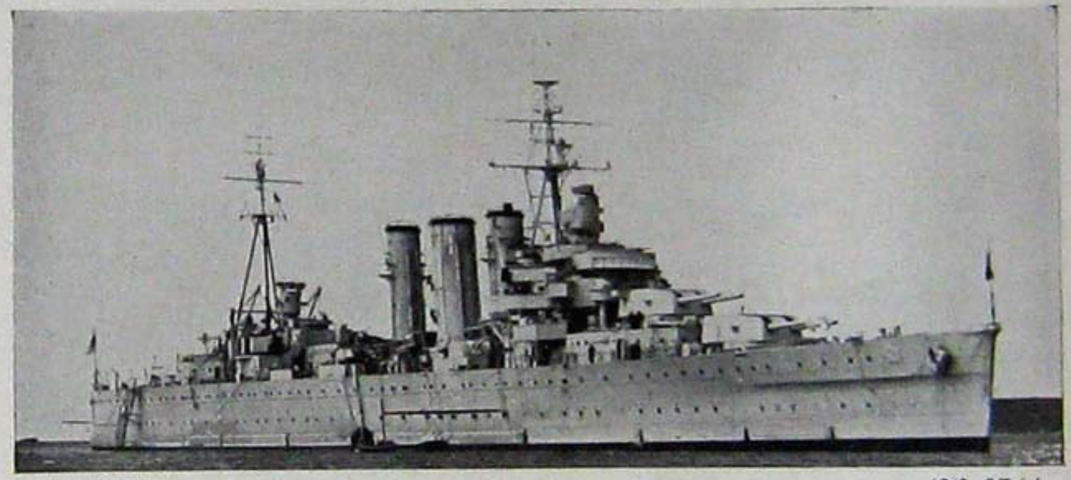
Displacement:	10,000 tons *standard* (13,540 tons *full load*)
Dimensions:	Length: 590 (pp.), 630 (o.a.) feet. Beam: 68¾ feet. Draught: 16¼ feet (*mean*)
Guns:	6—8 inch, 50 cal., 8—4 inch AA., 20—40 mm. AA., 16—2 pdr.
Armour:	3-5" side at w.l., 4" deck, 2-1½" gunhouses, 3" C.T. bulges
Machinery:	Brown-Curtis geared turbines. 4 screws. Designed S.H.P.: 80,000 = 31·5 kts.
Boilers:	8 Admiralty 3-drum type
Oil fuel:	3,400 tons
Radius:	2,300 miles at full speed: 10,400 miles at economical speed (11-14 kts.).
Complement:	679 (710 as flagship)



Notes.—Originally a sister ship of *Cumberland* in Royal Navy. Designed by Sir E. H. Tennyson d'Eyncourt for Australia. Refitted at Devonport Dockyard, 1945, and has exceptionally modern radar equipment. Sister ship *Canberra* was lost in action. (Torpedoed in Battle of Savo Island, subsequently sunk 9 Aug., 1942).



AUSTRALIA. 1952, *R.A.N., Official.*



AUSTRALIA. 1949, *Official.*

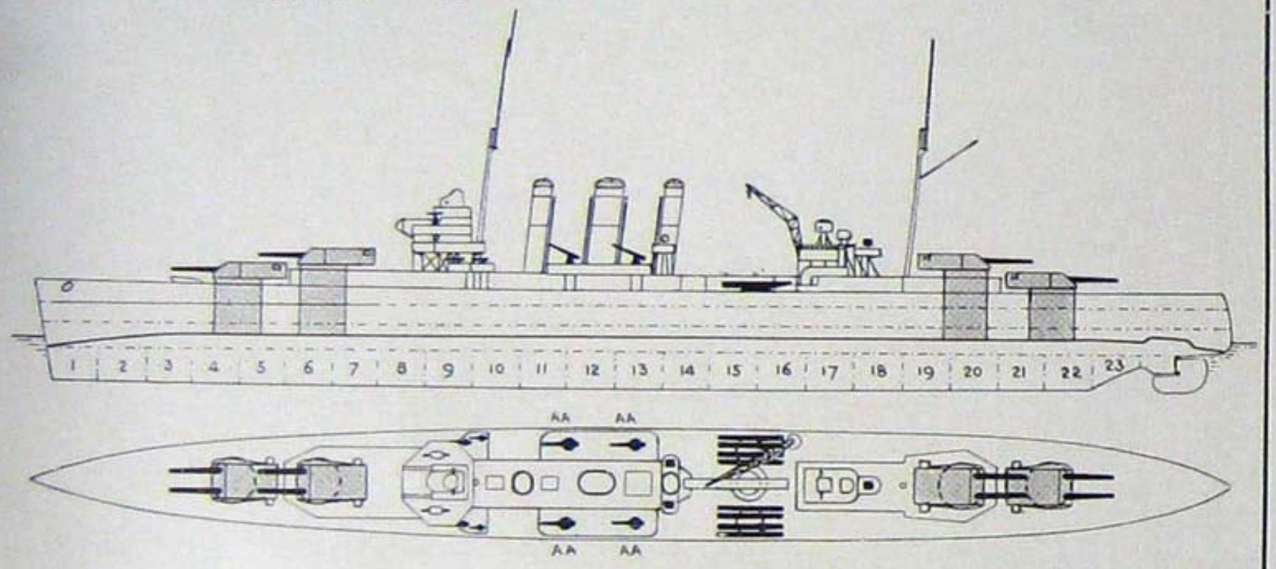
Heavy Cruiser.

1946, *London Studio.*

SHROPSHIRE

Builders	Wm. Beardmore & Co., Ltd., Dalmuir, Glasgow
Laid down :	24 Feb., 1927
Launched :	5 July, 1928
Completed :	Sept., 1929.

Displacement:	9,830 tons (14,280 tons *full load*)
Dimensions:	Length: 595 (*pp.*), 633 (*o.a.*). Beam: 66 feet. Draught: 17 feet (*mean*), 22¼ (*max.*)
Guns :	8—8 inch, 50 cal., 8—4 inch AA., 16—2 pdr. AA., 3—40 mm., 21—20 mm.
Armour:	4"deck, 2-1½" gunhouses, 3" C.T.
Machinery:	Parsons geared turbines. 4 shafts. S.H.P.: 80,000 = 32·25 kts.
Boilers:	8 Admiralty 3-drum type
Oil fuel:	3,200 tons
Complement:	650



Note to Plan.—Crane is actually mounted immediately abaft after funnel. AA. armament has been augmented, guns shown being paired. Now has tripod masts. Torpedo tubes now removed.

General Notes.—Sister ship of *Devonshire* in Royal Navy. She was officially presented by Great Britain to R.A.N. June 25, 1943, to replace *Canberra*, lost in action, and would have been renamed *Canberra* had not the U.S.A. re-named their heavy cruiser *Pittsburg* (then building) after her. She arrived in Australian waters Oct., 1943. Now laid up.

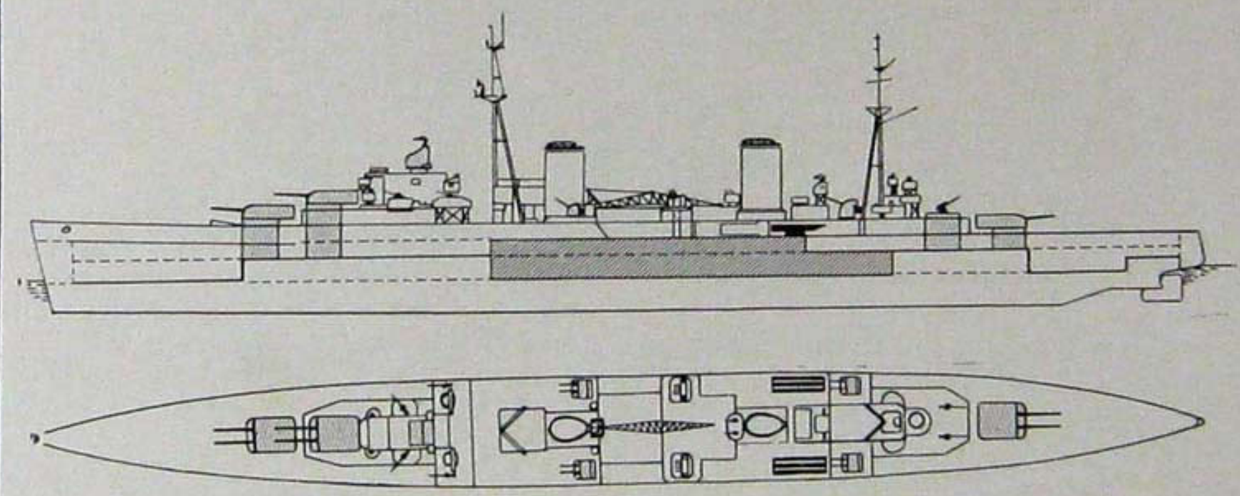
Light Cruiser (*Training Ship*).

1951, *R.A.N., Official.*

HOBART (ex-*Apollo*)

Builders :	H.M. Dockyard, Devonport
Engineers :	Wm. Beardmore & Co., Ltd., Dalmuir, Glasgow.
Laid down :	15 Aug., 1933
Launched :	9 Oct., 1934
Completed :	Jan., 1936

Displacement:	7,105 tons (9,420 tons *full load*)
Dimensions:	Length: 530 (*pp.*), 555 (*w.l.*) feet. Beam: 56¾ feet. Draught: 15¾ (*mean*) feet
Guns:	6—6 inch, 8—4 inch AA., 8—2 pdr. AA., 9—40 mm. AA., 2—20 mm. AA.
Tubes:	8—21 inch (quadrupled)
Armour:	1" turrets, 1" bridges, 2-3" side, 2" deck
Machinery:	4 Parsons geared turbines. 4 shafts. S.H.P.: 72,000 = 32·5 kts.
Boilers:	4 Admiralty 3-drum type
Oil fuel:	1,725 tons
Complement:	550

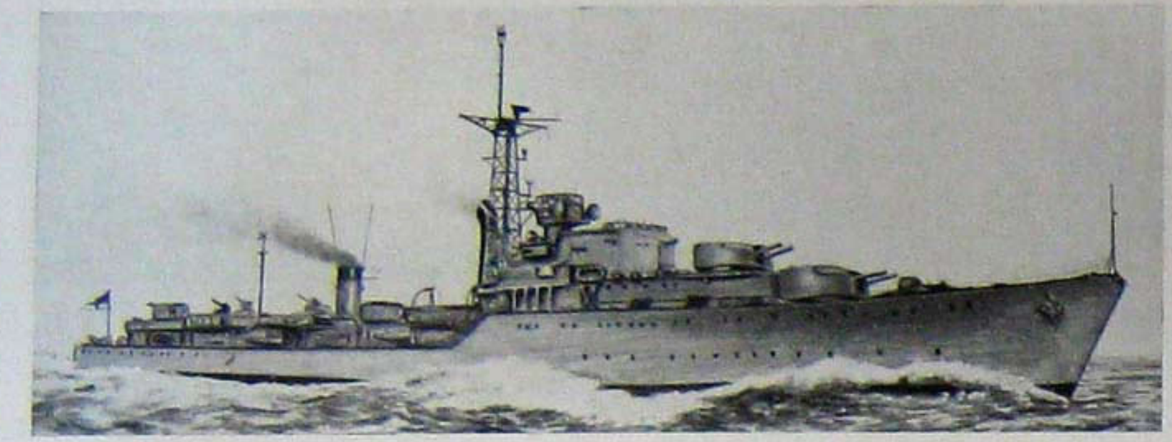


Notes.—Acquired from Great Britain in 1938. Though officially described as of " modified ' Leander ' type ", she differed entirely from the class in appearance. She was badly damaged aft by a torpedo off the New Hebrides in 1943. Officially stated modernisation begun, and substantial structural alterations carried out for completion as a training ship at Newcastle, New South Wales, State Dockyard by end of 1954. Second World War losses of this type : *Perth*, *Sydney*.

Destroyer Leader.

New Construction.

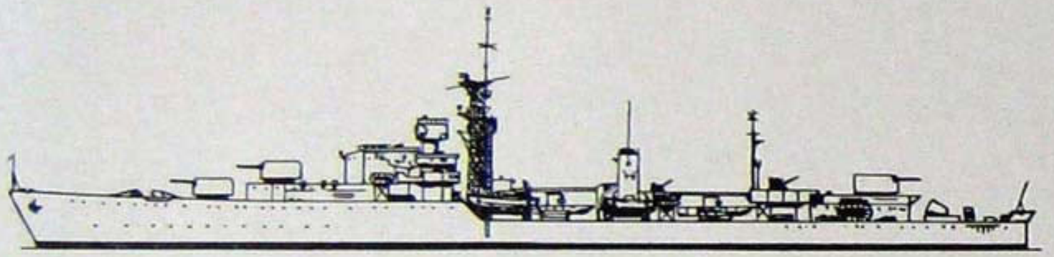
4 " Daring " Class.



(Artist's impression). 1950, *C. W. E. Richardson.*

VAMPIRE **VENDETTA** **VOYAGER** **WATERHEN**

Displacement :	2,610 tons (3,700 tons *full load*)
Dimensions :	390 (*o.a.*) × 43 × 12¼ feet
Guns :	6—4·5 inch, 6—40 mm. AA.
Tubes :	10—21 inch
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 54,000 = 34·75 kts. *designed* (about 30·5 kts. sea speed)



Notes.—Largest destroyers ever built in Australia. All ordered in 1946. Design similar to that of " Daring " class, built in Great Britain ; but have been modified to suit Australian conditions. *Voyager*, first Australian all-welded steel ship, built in sections and assembled on the slipway from which she was launched. One at Cockatoo docks reported being built in dry dock, the various sections being prefabricated. The four ships are named after the R.A.N.'s famous "Scrap Iron Flotilla" of destroyers which won renown in the Mediterranean in the Second World War.

Name	*Builders*	*Begun**	*Launched*
Vampire	H.M.A. Naval Dockyard, Williamstown	4 July 1949	
Vendetta	Cockatoo Island Dockyard, Sydney	Mar. 1952	
Voyager	Cockatoo Island Dockyard, Sydney	10 Oct. 1949	1 Mar. 1952
Waterhen	H.M.A. Naval Dockyard, Williamstown	Dec. 1952	

* Commenced Assembly.

Fleet Destroyers.

2 " Battle " Class.

ANZAC. 1953, *R.A.N., Official.*

TOBRUK. 1952 *R.A.N., Official.*

ANZAC **TOBRUK**

Displacement:	2,325 tons (3,300 tons *full load*)
Dimensions :	355 (*pp.*), 379 (*o.a.*) × 41 × 12¾ (*mean*), 13½ (*max.*) feet
Guns :	4—4·5 inch, 12—40 mm. AA.
Tubes :	10—21 inch
A/S Weapons :	Squid
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 50,000 = 35·75 kts. (*designed*), 31 kts. (sea speed)
Boilers :	2 Admiralty 3-drum type
Complement	290

General Notes.—Ordered 1945-46. Very similar to " Battle " class fleet destroyers in Royal Navy, but several alterations including secondary armament, sleeping accommodation for officers and men fore and aft, and improved mess layout and other amenities. Have modern radar fire control, close range Staag armament (new type of twin 40 mm. Bofors gun mounting) and latest anti-submarine weapons. *Tobruk* joined the fleet 16 Jan. 1951. Cost £2,470,000. *Anzac* commenced trials 20 Dec. 1950, and commissioned 14 Mar. 1951. Cost £2,500,000.

Gunnery Notes.—*Anzac* has the first " Battle " type 4·5 inch guns and mountings of completely Australian manufacture (weight of each twin mount *approx.* 50 tons.) Reported to be fully automatic, rate of fire 25 rounds per minute, accurate range of over ten miles, firing shell weighing 53 lb. The 4·5 inch guns for *Tobruk* were imported from Great Britain.

Appearance Notes.—Both *Anzac* and *Tobruk* have a clinker screen or funnel cowl, a recent addition (see photos) fitted to keep bridge clear of exhaust fumes and funnel gases in a following breeze.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 59	*Anzac*	Williamstown Naval Dockyard	23 Sept. 1946	20 Aug. 1948	22 Mar. 1951
D 37	*Tobruk*	Cockatoo Docks & Eng. Co., Pty., Ltd.		20 Dec. 1947	8 May 1950

Anti-Submarine Destroyers.

3 Improved "Tribal" Class.

ARUNTA (after modernisation) 1953, *R.A.N., Official.*

WARRAMUNGA. 1950, *R.A.N., Official.*

ARUNTA	BATAAN (ex-*Kurnai*)	WARRAMUNGA
Displacement:	1,970 tons (2,675 tons *full load*)	
Dimensions:	355½ (*pp.*), 377½ (*o.a.*) × 36½ × 9 feet (15½ feet *max.*)	
Guns:	6—4·7 inch, (*Arunta* 4—4·7 inch) 2—4 inch, 6—40 mm. AA., 4—2 pdr. AA., 4 M.G.	
Tubes:	4—21 inch	
A/S Weapons:	Include 2 D.C.T. (*Arunta* squid aft in "Y" position)	
Machinery:	Parsons geared turbines. S.H.P.: 44,000 = 36·5 kts. (34 kts. sea speed)	
Boilers:	3 Admiralty 3-drum type	
Complement:	250	

Note.—All built by Cockatoo Docks & Engineering Co. Pty., Ltd. *Arunta* underwent large scale refit and modernisation, guns being removed and deckhouse aft extended towards stern, re-armed with different pattern guns and A/S weapons and reclassified as anti-submarine destroyer. Officially stated that modernisation of *Bataan* and *Warramunga* has been authorised, are to be fitted with modern anti-submarine equipment.

Pendant No.	*Name*	*Laid down*	*Launched*	*Completed*
D 130	*Arunta*	15 Nov. 1939	30 Nov. 1940	3 Mar. 1942
D 191	*Bataan*	18 Feb. 1942	15 Jan. 1944	25 May 1945
D 123	*Warramunga*	10 Feb. 1940	7 Feb. 1942	23 Nov. 1942

Fast Anti-Submarine Frigates.

6 New Construction.

Displacement:	2,000 tons (*approx.*)
Guns:	Several small
A/S weapons:	Squid type
Speed:	About 30 kts.

Notes.—Announced in Aug. 1950 that six new fast anti-submarine frigates are to be laid down. To cost £2,000,000 each. Three to be built at Cockatoo Island Dockyard, Sydney, and three at the Naval Dockyard, Williamstown. Officially stated that, although they are to be called anti-submarine frigates, they will actually be more like destroyers, in which the capacity for anti-submarine operations will be the principal factor in determining the provision of weapons and equipment.

5 "Queenborough" Class (*being converted from Destroyers*).

QUADRANT (as destroyer) *Added 1950.*

QUADRANT	QUALITY	QUEENBOROUGH	QUIBERON	QUICKMATCH
Displacement:	1,705 tons (2,425 tons *full load*)			
Dimensions:	358¾ × 35¾ × 9½ (15½ *max.*) feet			
Guns:	2—4 inch (twin-mount), 2—40 mm., Bofors, AA.			
Tubes:	2—21 inch (fixed)			
A/S Weapons	2 ahead throwing improved squids (triple)			
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 40,000=36 kts. (sea speed 32 kts. at 36,000 S.H.P.)			
Boilers:	2 Admiralty 3-drum type			
Complement:	220 (war)			

Notes.—Formerly in the Royal Navy. Lent to the Royal Australian Navy in 1943 (*Quiberon, Quickmatch*) and 1945 (others). Transferred permanently June 1950. Being converted to fast anti-submarine frigates similar to *Relentless* and *Rocket* in Great Britain section at a cost of £A400,000 each. The conversions are being effected at Cockatoo Island and Williamstown dockyards. *Quadrant* commissioned 1953.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 11	*Quadrant*	R. & W. Hawthorn, Leslie & Co., Ltd., Hebburn-on-Tyne	24 Sep. 1940	28 Feb. 1942	26 Nov. 1942
D 262	*Quality*	Swan, Hunter & Wigham Richardson, Ltd., Wallsend-on-Tyne	10 Oct. 1940	6 Oct. 1941	7 Sep. 1942
D 270	*Queenborough*	Swan, Hunter & Wigham Richardson, Ltd., Wallsend-on-Tyne	6 Nov. 1940	16 Jan. 1942	10 Dec. 1942
D 281	*Quiberon*	J. Samuel White & Co., Ltd., Cowes, Isle of Wight	14 Oct. 1940	31 Jan. 1942	22 July 1942
D 292	*Quickmatch*	J. Samuel White & Co., Ltd., Cowes, Isle of Wight	6 Feb. 1941	11 Apr. 1942	30 Sep. 1942

4 " Bay " Type.

MURCHISON. 1951, *R.A.N., Official.*

SHOALHAVEN. 1950, *R.A.N., Official.*

CONDAMINE **CULGOA** (*ex-Macquarie*) **MURCHISON** **SHOALHAVEN**

Displacement:	1,544 tons (2,106 tons *full load*)
Dimensions:	283 (*pp.*), 301 (*o.a.*) × 36½ × 12 (*mean*) feet
Guns:	4—4 inch, 3—40 mm. AA., 4—20 mm. AA.
A/S Weapons:	1 hedgehog, 4 D.C.T.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 5,500 = 19 kts.
Boilers:	2 Admiralty 3-drum type
Complement:	177

Note.—These 4 ships are an Australian version of the " Bay " class.

Pendant No.	*Name*	*Builders*	*Launched*
F 698	*Condamine*	N.S.W. Govt. Engineering & Shipbuilding Undertaking, Newcastle	20 Oct. 1943
F 408	*Culgoa*	Williamstown Naval Dockyard, Melbourne	22 Sept., 1945
F 442	*Murchison*	Evans, Deakin & Co., Ltd., Brisbane	31 Oct. 1944
F 535	*Shoalhaven*	Walkers, Ltd., Maryborough	14 Dec. 1944

7 " River " Class.

MACQUARIE 1953, *R.A.N. Official.*

BARCOO. 1951, *courtesy K. F. Caldwell, Esq.*

BARCOO **DIAMANTINA** **HAWKESBURY**
BARWON **GASCOYNE** **MACQUARIE**
BURDEKIN

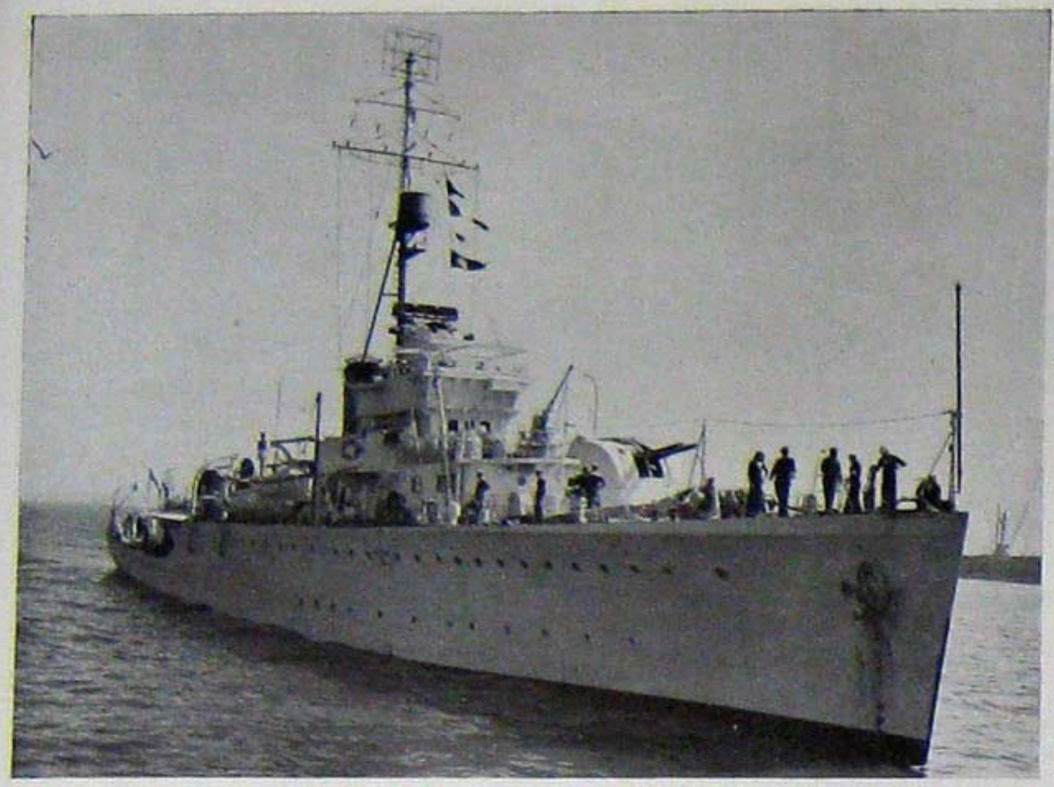
Displacement:	1,420 tons (2,220 tons *full load*)
Dimensions:	301½ × 36½ × 12 feet
Guns:	2—4 inch, 2—40 mm. AA., 6 to 20 M.G.
A/S Weapons:	2 squids (triple barrelled) in " B " position in *Barcoo*, 4 D.C.T.
Machinery:	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers:	2 Admiralty 3-drum type
Complement:	140

Notes.—All are of " River " design. Officially stated to have been equipped with the most modern anti-submarine devices. *Barcoo* is employed on Surveying service: forward 4-inch gun is in "A" position. *Lachlan*, employed on Surveying duties, is loaned to Royal New Zealand Navy for three years for hydrographic work and oceanographic research. Cancelled ships : *Bogan, Murrumbidgee, Namoi, Warburton.*

Pendant No.	*Name*	*Builders*	*Launched*
F 175	*Barcoo*	Cockatoo Docks	26 Aug. 1943
F 406	*Barwon*	Cockatoo Docks	3 Aug. 1944
F 376	*Burdekin*	Walkers, Maryborough	30 June 1943
F 377	*Diamantina*	Walkers, Maryborough	6 Apr. 1944
F 354	*Gascoyne*	Mort's Dock, Sydney	20 Feb. 1943
F 363	*Hawkesbury*	Mort's Dock, Sydney	24 July, 1943
F 532	*Macquarie*	Mort's Dock, Sydney	3 Mar. 1945

Frigates—*continued.*

2 "Swan" Class.



WARREGO. 1950, *R.A.N., Official.*

SWAN **WARREGO**

Displacement:	1,060 tons (1,575 tons *full load*)
Dimensions:	250 (*pp.*), 263 (*w.l.*), 266 (*o.a.*) × 36 × 7¼ (*mean*) feet
Guns:	*Swan*: 4—4 inch, 1—40 mm. AA., 10 M.G. *Warrego*: 3—4 inch, 2—40 mm., 4—20 mm.
Machinery:	2 sets Parsons geared turbines. S.H.P.: 2,000 = 16·5 kts.
Boilers:	2 Admiralty 3-drum type
Oil fuel:	275 tons
Complement:	125

Notes.—Formerly classed as Sloops. *Warrego* (see photo) is employed on Surveying service but retains full armament for training purposes. War losses of this type : *Parramatta, Yarra.*

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 74	*Swan*	Cockatoo Docks & Engineering Co., Pty., Ltd.	1 May 1935	28 Mar. 1936	10 Dec. 1936
A 312	*Warrego*	Cockatoo Docks & Engineering Co., Pty., Ltd.	15 May 1939	10 Feb. 1940	21 Aug. 1940

Submarines.

TACTICIAN **TELEMACHUS** **THOROUGH**

Notes.—On Loan from Royal Navy. For particulars see Great Britain section, page 53. Based at H.M.A.S. *Penguin*, Sydney, for anti-submarine training. Constitute the Fourth Submarine Squadron. All fitted with snort (Schnorkel breathing device).

Ocean Minesweepers.

28 "Bathurst" Class.

COWRA 1953, *R.A.N., Official*

Pendant No.		*Launched*
	8 Evans Deakin, Brisbane	
M 34	**ARARAT**	20 Feb. 1943
M 241	**BUNBURY**	16 May 1942
M 231	**BUNDABERG**	1 Dec. 1941
M 246	**FREMANTLE**	18 Aug. 1942
M 326	**GLENELG**	25 Sep. 1942
M 238	**GYMPIE**	30 Jan. 1942
M 361	**PARKES**	30 Oct. 1943
M 205	**TOWNSVILLE**	13 May 1942
	7 Mort's Dock, Sydney	
M 05	**COLAC**	13 Aug. 1941
M 232	**DELORAINE**	26 July 1941
M 251	**DUBBO**	7 Mar. 1942
M 234	**LATROBE**	19 June 1942
M 206	**LITHGOW**	21 Dec. 1940
M 207	**MILDURA**	15 May 1941
M 183	**WAGGA**	25 July 1942

Pendant No.		*Launched*
	5 Poole & Steel, Sydney	
M 186	**COOTAMUNDRA**	3 Dec. 1942
M 351	**COWRA**	27 May 1943
M 362	**JUNEE**	16 Nov. 1943
M 218	**KAPUNDA**	23 June 1942
M 204	**KATOOMBA**	16 Apr. 1941
	1 State Dockyard, Newcastle	
M 363	**STRAHAN**	12 July 1943
	3 Walkers, Maryborough	
M 285	**BOWEN**	11 July 1942
M 324	**GLADSTONE**	26 Nov. 1942
M 203	**ROCKHAMPTON**	26 June 1941
	4 Williamstown Dockyard	
M 323	**BENALIA**	19 Dec. 1942
M 244	**CASTLEMAINE**	3 Aug. 194
M 235	**HORSHAM**	23 May 1942
M 248	**SHEPPARTON**	15 Aug. 1942

Displacement :	790 tons *standard* (1,025 tons *full load*)
Dimensions:	186 (*o.a.*), 162 (*pp.*) × 31 × 8½ (*mean*) feet
Guns:	1—4 inch, 1—40 mm. AA., 6 M.G.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,800 = 15·5 kts.
Boilers:	2 Admiralty 3-drum small tube type

Notes.—Designed displacement was 650 tons (860 tons *full load*). Design is generally similar to "Bangor" type. *Gladstone, Cowra, Freemantle, Mildura, Wagga, Cootamundra* and *Junee* are used for training Permanent Service, Reserve and National Service Training personnel. 60 ships of the "Bathurst" type were built in Australia, including 4 for the Indian Navy, and 20 on account of the Admiralty, which last, however, were manned and commissioned by the Royal Australian Navy. 8 "Admiralty" ships were sold to the Royal Netherlands Navy and 5 to the Turkish Navy after the war. *Warrnambool* was sunk by a mine off Queensland coast, 13 Sept., 1947. *Echuca, Inverell, Kiama* and *Stawell* were given to New Zealand 1952. War losses : *Armidale, Geelong Wallaroo.*

Coastal Minesweepers.

4 New Construction.

Notes.—The construction of four coasta lminesweepers has been approved in private yards. Main engines and major items o equipment will be ordered in the United Kingdom through the Admiralty.

Seaward Defence Boats.

4 New Construction.

Notes.—Announced Government has approved the construction in privately owned shipyards of four seaward defence boats. Propelling machinery and major equipment will be ordered from Great Britain.

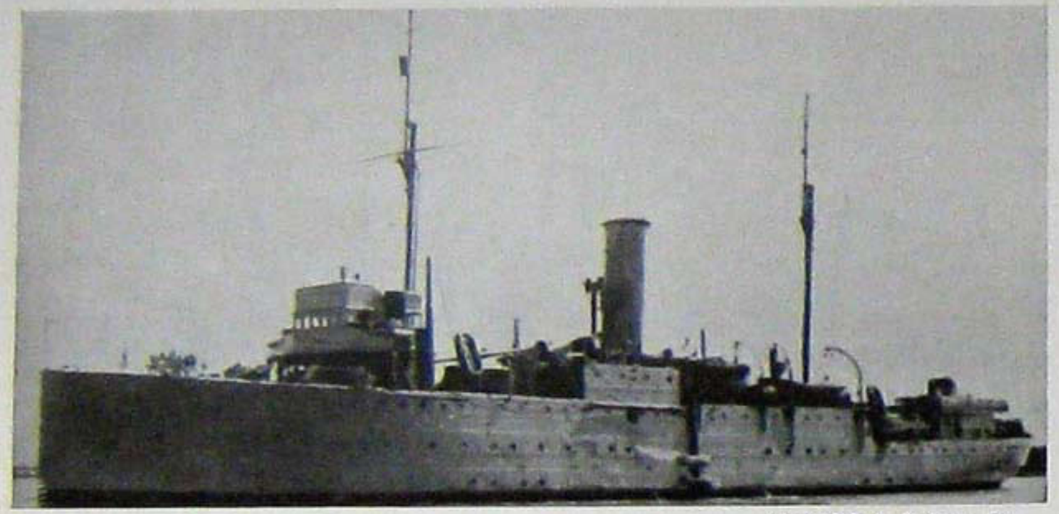
Seaward Defence Motor Launches.

SDML 1321 **SDML 1324** **SDML 1325** **SDML 1327**

Displacement:	46 tons (54 tons *full load*)
Dimensions:	72 (*o.a.*) × 15½ × 5½ feet
Guns:	1—3 pdr., 1—20 mm. AA.
Machinery:	Diesel. 2 shafts. B.H.P.: 320 = 12 kts.
Complement:	14

Notes.—Originally known as Harbour Defence Motor Launches (HDML). SDML 1322 was officially stricken off 1953.

Depot Ship.



Added 1949, A. C. Green, Esq.

PLATYPUS (ex-*Penguin*, ex-*Platypus*)

Builders: John Brown & Co., Ltd., Clydebank.
Launched: 28 Oct. 1916.

Displacement:	3,455 tons
Dimensions:	310 (*w.l.*), 325 (*o.a.*) × 44 × 15¾ (*max.*) feet
Guns:	Few small
Machinery:	2 sets triple expansion. 2 shafts. I.H.P.: 3,500 = 15·5 kts.
Boilers:	4 cylindrical return-tube
Coal:	450 tons
Complement:	357

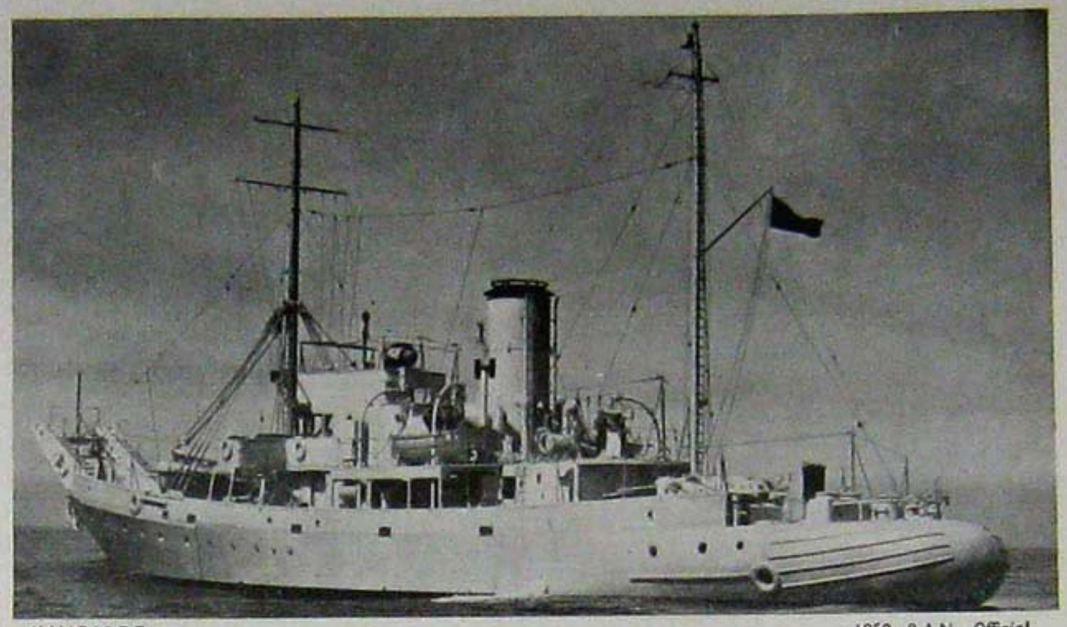
Notes.—Accommodation ship for vessels in reserve at Sydney. Formerly classified as a repair ship. Originally had taller masts.

Boom Defence Vessels.

3 New Construction.

Notes.—Three boom working vessels are to be built. Hull of one will be constructed at the Naval Dockyard Willamstown, the other two in private yards.

3 " Kangaroo " Class.



KANGAROO. 1950, *R.A.N., Official.*

KANGAROO **KARANGI** **KOALA**

Displacement:	768 tons
Dimensions:	150 (*pp.*), 164 (*o.a.*) × 32½ × 9½ (14 *max.*) feet
Guns:	1—12 pdr.
Machinery:	Triple expansion. I.H.P.: 850 = 11·5 kts.
Boilers:	2
Oil fuel:	140 tons
Complement:	32

Notes.—Boom defence, working and mooring vessels. Similar to the " Bar " type boom defence vessels in the Royal Navy

Pendant No.	*Name*	*Laid down*	*Launched*	*Completed*
P 80	*Kangaroo*		1939	
P 282	*Karangi*	5 Feb. 1941	16 Aug. 1941	10 Dec. 1941
P 69	*Koala*		1939	

Surveying Vessels.

Frigates *Barcoo*, *Lachlan* (loaned to Royal New Zealand Navy) and *Warrego* are employed on Surveying duties. *Warrego* retains full armament for training purposes.

General Purpose Vessels, *Jabiru*, *Tallarook*. Vessels of M.F.V. type, employed as survey tenders for surveying shallow waters, etc.

Tank Landing Ships.

LAE (ex-*LST* 3035). *Added* 1948.

LABUAN (ex-*LST* 3501)
LAE (ex-*LST* (3) 3035)
TARAKAN (ex-*LST* (3) 3017)

Displacement:	2,300 tons
Dimensions:	347½ × 55½ × 12½ feet
Guns:	4—40 mm. AA., 16—20 mm. AA.
Speed:	13·5 kts.

Notes.—On loan from R.N. Named after amphibious landings in which R.A.N. and Australian Military forces took part. An explosion wrecked the interior of *Tarakan* Jan. 26, 1950, while berthed at Garden Island, Sydney Harbour.

Air/Sea Rescue Launches.

AIR MERCY. 1951, *R.A.N.*

AIR CHIEF **AIR MASTER** **AIR MERCY** **AIR SPEED** **AIR TRAIL**

Length:	63 feet
Speed:	30 kts.
Radius:	200 miles

Notes.—The launches of the R.A.N. Search and Rescue Unit (A.S.R.C. Series) at Jervis Bay are fitted with wireless and scientific equipment.

General Purpose Vessels.

TALLAROOK. 1950, *R.A.N., Official.*

GPV 963. *Added* 1949.

GPV 948	**GPV 953**	**GPV 957**	**GPV 961**	**GPV 965**
GPV 949	**GPV 954**	**GPV 958**	**GPV 962**	**BROLGA**
GPV 951	**GPV 955**	**GPV 959**	**GPV 963**	**JABIRU**
GPV 952	**GPV 956**	**GPV 960**	**GPV 964**	**TALLAROOK**

Length:	75 feet
Machinery:	Diesel
Speed:	10 kts.

Notes.—Wooden General Purpose Vessels of M.F.V. type. Used for surveying, minesweeping and Fleet tender duties. GPV 963 was fitted for magnetic minesweeping. *Jabiru* and *Tallarook* employed as survey tenders for surveying shallow waters etc. Complement 8. Four of these vessels were loaned to the Royal Navy in 1951 for general duties in the Malayan area.

Fleet Oiler.

Displacement: 15,000 tons

Notes.—Australian Navy Minister announced on 19th Sep. 1951 that the Government had decided to buy a tanker for the R.A.N. at a cost of more than £A2,500,000. Ordered through British Admiralty. It is hoped she will join Australian Fleet by June 1953.

Armament Store Carrier.

WOOMERA

Measurement:	300 tons gross
Speed:	8 kts.

Note.—Armament Store Carrier.

Fleet Tugs.

RESERVE. *Added* 1949, *courtesy K. F. Caldwell, Esq.*

RESERVE **SPRIGHTLY**

Displacement:	570 tons (800 tons *full load*)
Dimensions:	143 × 33 × 13½ feet
Guns:	1—3 inch AA., 2—20 mm.
Machinery:	Two Diesels and two electric motors. Engines fully controllable from bridge. B.H.P.: 1,875 = 14 kts.
Oil fuel:	186 tons
Complement:	34

Notes.—Reserve commissioned Dec. 10, 1942, with Australian crew under Lend-Lease and flew Australian Red Ensign for 12 months under control of Commonwealth Salvage Board, after which transferred to R.A.N. Salvage Board tug *Tancred* is sister ship.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Reserve	Levingstone S.B. Co.	18 May, 1942	18 July, 1942	12 Oct., 1942
Sprightly	Orange, Texas, U.S.A.	6 June, 1942	7 Aug., 1942	23 Nov., 1942

D.T. 931 **D.T. 932** **D.T. 933**

Displacement:	250 tons
Dimensions:	98½ (o.a.) × 21½ × 8 feet
Machinery:	Diesel. 1 shaft. B.H.P.: 510 = 9½ kts.

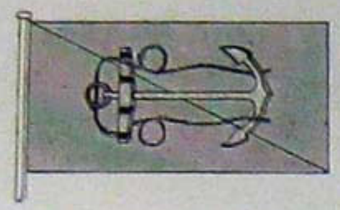
Notes.—First two built by Mort's Dock, Sydney, 933 by Poole & Steele Pty. Ltd., Sydney Launched Feb. 2, June 25, and May 3, 1946, respectively.

ROYAL CANADIAN NAVY

Flags.

GOVERNOR-GENERAL

JACK.
CANADIAN BLUE ENSIGN.



NAVAL BOARD FLAG.

Ships of the Royal Canadian Navy wear the White Ensign, and have red maple leaves on (after) funnel. Mercantile flag is similar to Blue Ensign, with red instead of blue background.

Administration.

Governor-General : His Excellency the Right Honourable Vincent Massey, P.C., C.H.
Minister of National Defence: The Hon. Brooke Claxton, K.C.
Deputy Minister of National Defence: Mr. C. M. Drury, C.B., C.B.E., D.S.O., E.D.

Naval Board.

Chief of the Naval Staff : Vice-Admiral E. Rollo Mainguy, O.B.E., C.D., R.C.N.
Vice-Chief of Naval Staff : Rear-Admiral W. B. Creery, C.B.E., C.D., R.C.N.
Assistant Chief of Naval Staff (Air): Commodore C. L. Keighley-Peach, D.S.O., O.B.E., R.N.
Assistant Chief of Naval Staff (Warfare) : Commodore H. N. Lay, O.B.E., C.D., R.C.N.
Chief of Naval Personnel : Commodore J. C. Hibbard, D.S.C. & Bar, C.D., R.C.N.
Chief of Naval Technical Services : Rear-Admiral (E) J. G. Knowlton, O.B.E., C.D., R.C.N.
Secretary to the Naval Board : Captain (S) M. A. Davidson, C.D., R.C.N.

Senior Canadian Naval Liaison Officer, London : Captain H. V. W. Groos, C.D., R.C.N.

Navy Estimates.

1949-50 : $82,000,000. 1950-51 : $83,000,000. 1951-52 : $277,000,000. 1952-53 : $294,000,000.

Uniforms.

Same as in Royal Navy (see Great Britain section, Page 1) up to the rank of Vice-Admiral.

Ranks.

Similar to those in Royal Navy, except that *Commodore* is a substantive and not a temporary rank.

Naval Programme.

Intention is to build up a 100-ship Navy by 1954.

New Construction.

The Canadian Government has awarded contracts for building 39 warships costing $156,000,000. They include 14 anti-submarine frigates (rated as destroyer escorts), 14 minesweepers, 5 gate vessels, 1 Arctic patrol vessel (icebreaker), 1 loop layer, and 2 tugs.

Personnel.

30th Sptember, 1953 : *Royal Canadian Navy*, 14,562 officers and men (authorised strength 17,326).
Royal Canadian Navy (Reserve), 6,700 officers and men (authorised strength 7,500).

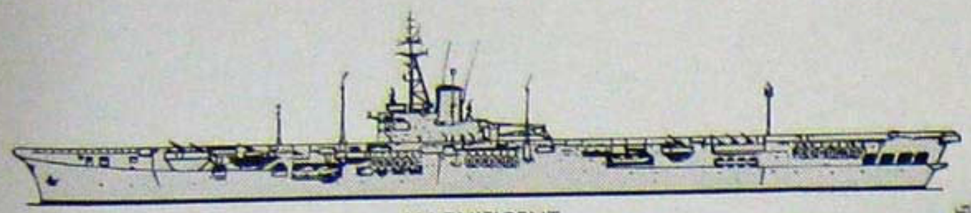
Ship Classification.

The Royal Canadian Navy has adopted a Type Designator and Hull Number Assignment List basically similar to that used in the United States Navy, as follows :

Light Fleet Aircraft Carrier	CVL	Ocean Minesweeper	FSE
Light Cruiser	CL	Coastal Escort	FSE
Escort Destroyer	DDE	Coastal Minesweeper	AMC
Anti-Submarine Escort	DE	Motor Minesweeper	YMS
Anti-Submarine Frigate	FFE	Icebreaker	AGB
Frigate Weathership	FFE	Gate Vessel	YNG

Mercantile Marine.

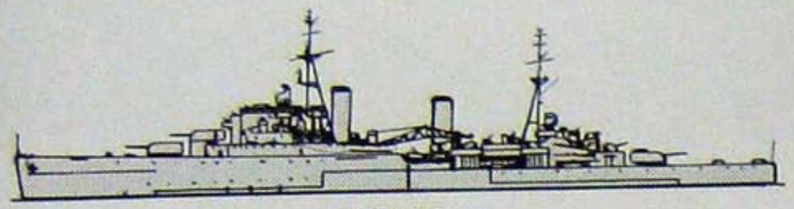
Lloyd's Register appendix, 1953 : *Sea* : 859 vessels of 960,781 tons gross.
Great Lakes : 361 vessels of 843,524 tons gross.



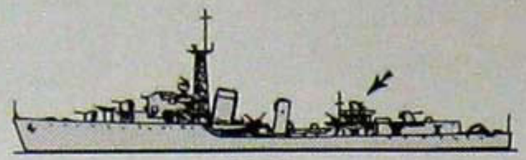
MAGNIFICENT.

HAIDA, IROQUOIS.

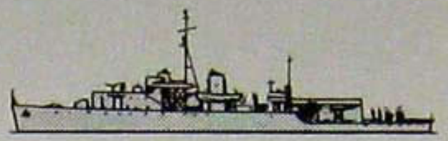
SIOUX.



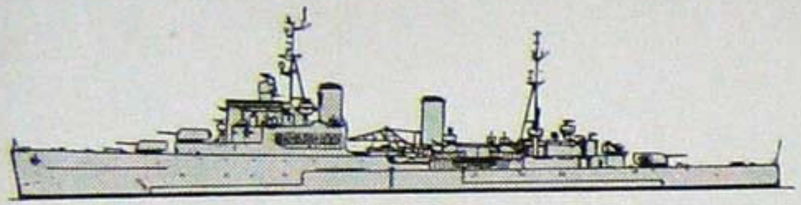
ONTARIO.



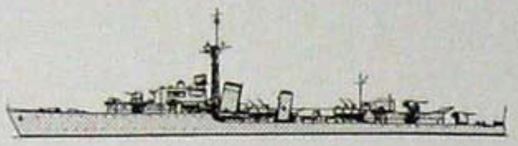
HURON.



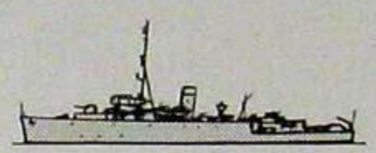
SWANSEA *Class.*



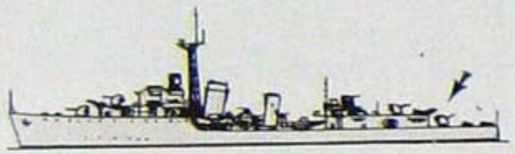
QUEBEC.



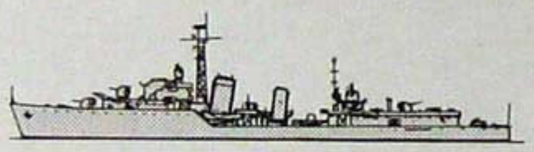
MICMAC.



NEW LISKEARD *Class.*

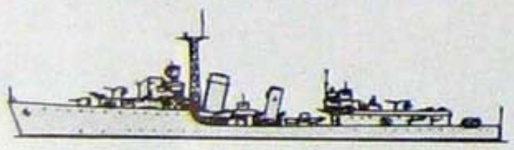


ATHABASKAN

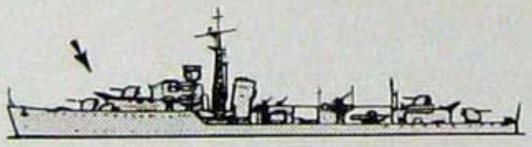


NOOTKA.

BLAIRMORE *Class.*



CAYUGA



CRESCENT.

BROCKVILLE *Class.*

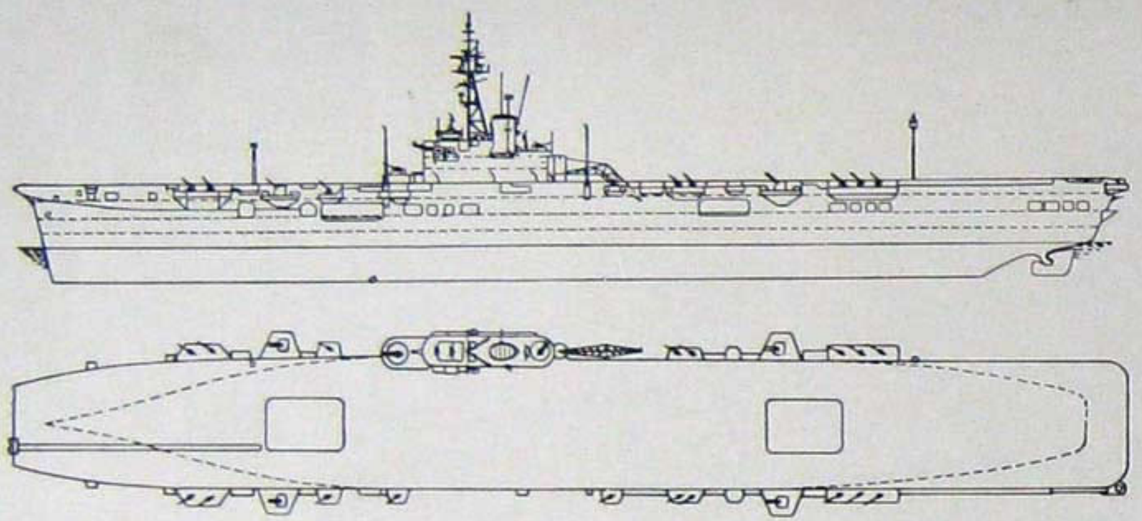
Light Fleet Carriers (CVL).

MAGNIFICENT.

1950, *R.C.N., Official.*

BONAVENTURE (*ex-Powerful*) — MAGNIFICENT

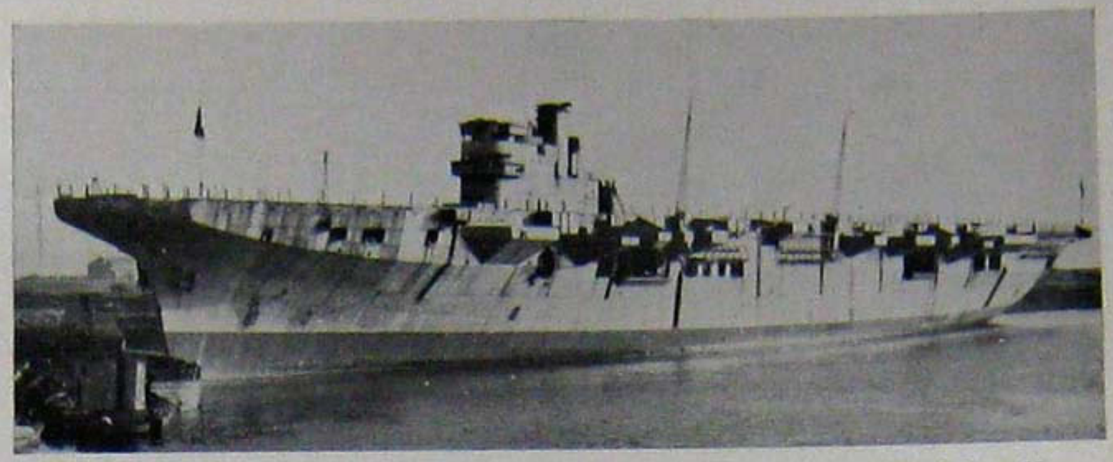
Displacement:	14,000 tons (19,550 tons *full load*)
Dimensions:	Length: 630 (pp.), 695 (o.a.) feet. Beam: 80 feet. Width: 112½ feet. Draught: 25 feet
Guns:	4—3 pdr., 30—40 mm. AA. (Bofors)
Aircraft:	34 (capacity)
Machinery:	Parsons single-reduction geared turbines. 2 shafts. S.H.P.: 40,000 = 24·5 kts. (designed).
Boilers:	4 Admiralty 3-drum type. Steam pressure at engines: 350 lb./sq. in.
Complement:	1,350 (war)



Notes.—Magnificent is on loan from the Royal Navy. For widths of flight deck and other particulars see *Hercules* class, Great Britain section, page 17. Air recognition letter "X" painted on flight deck. Gype Designator and Hull No.: CVL 21.

Arrangements were made in 1952 for the purchase by Canada of a suspended sister ship, *Powerful* (see photo, top right) from Great Britain for completion to replace the *Magnificent* which will be retained in service by the Royal Canadian Navy in the meantime. The *Powerful*, under construction by Harland & Wolff, Ltd., Belfast, has been redesigned to handle jet aircraft, but will not be ready for service for some time, as plans have been revised to provide for a completely modern aircraft carrier: the modification includes the strengthening of the flight deck and elevators and improvements in deck arrester gear, and the new British steam catapult, capable of launching jet and heavy aircraft of types will be fitted. The *Powerful* was suspended in May 1946, but construction was resumed in July 1952, and she has been renamed *Bonaventure*. She is to have the new "Angled Deck".

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Bonaventure	Harland & Wolff, Ltd., Belfast.	27 Nov. 1943	27 Feb., 1945	7 Apr., 1948
Magnificent		29 July 1943	16 Nov., 1944	



BONAVENTURE

1951, *C. Parsons, Esq.*

MAGNIFICENT.

1952, *A. & J. Pavia*

MAGNIFICENT.

1950, *R.C.N., Official.*

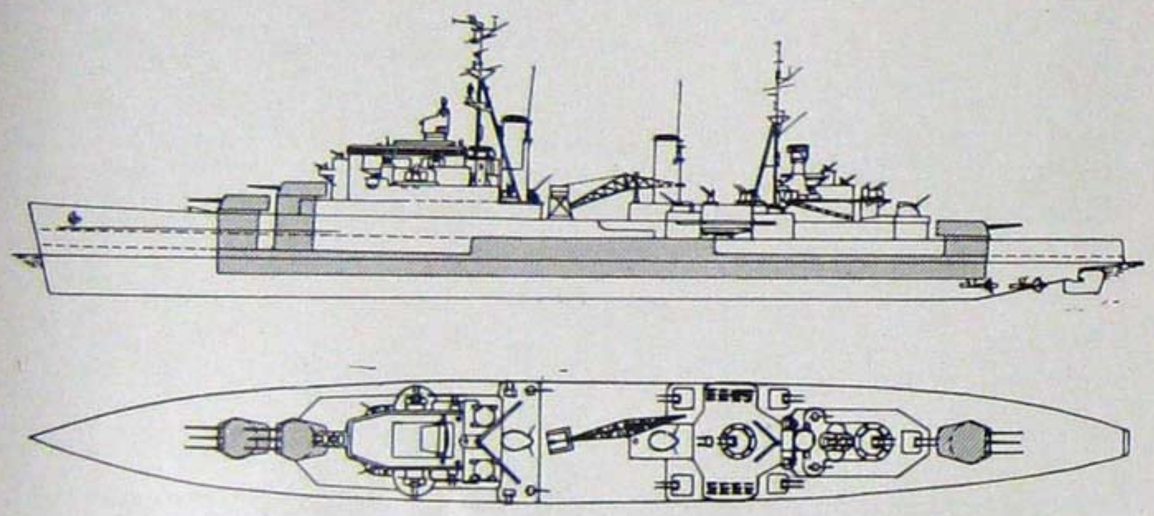
Light Cruiser (CL).

ONTARIO. 1950, *R.C.N., Official.*

ONTARIO (ex-*Minotaur*)

Builders:	Harland & Wolff, Ltd., Belfast
Laid down:	20 Nov., 1941
Launched:	29 July, 1943
Completed:	25 May, 1945

Displacement :	8,700 tons (11,480 tons *full load*)
Dimensions:	Length: 555½ (*o.a.*) feet. Beam: 63 feet. Draught: 16½ (*mean*), 21½ (*max.*) feet
Guns :	9—6 inch, 10—4 inch, 20—40 mm. AA. (quadruple)
Tubes:	6—21 inch
Armour:	4½"—3" side
Machinery:	Parsons geared turbines. 4 shafts. S.H.P.: 72,500 = 31·5 kts.
Boilers:	4 Admiralty 3-drum type
Oil fuel:	1,850 tons
Complement:	730



Notes.—Built for the Royal Navy, and presented to the Royal Canadian Navy by Great Britain on completion. Radar equipment is of more modern pattern than in Quebec. Refitted Feb. 1950. Employed as Training Cruiser on West Coast. Type Designator and Hull No. : CL 32. Identification Mark : ON.

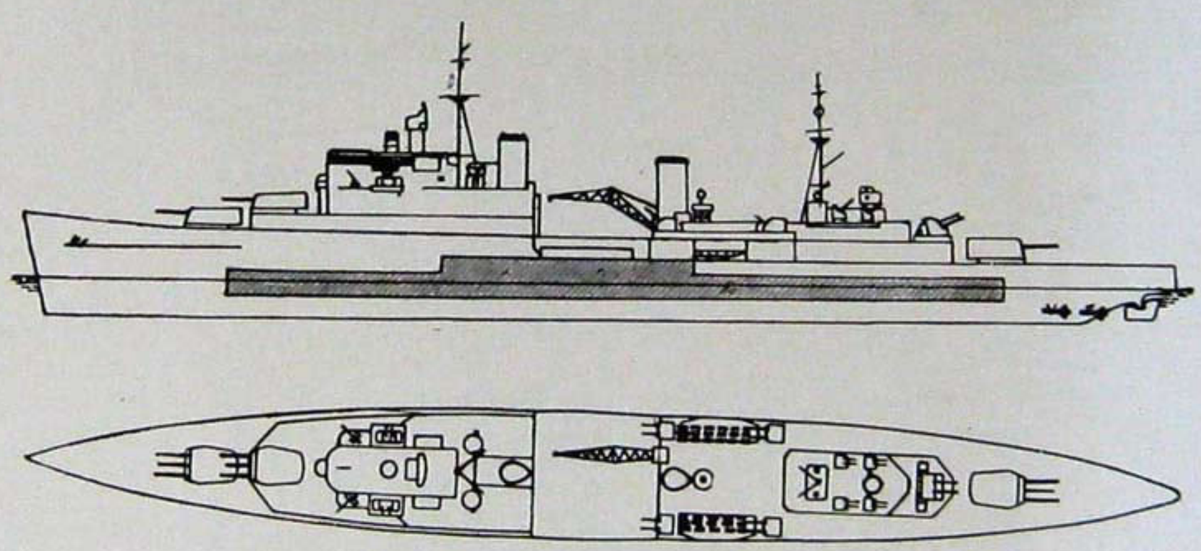
Light Cruiser (CL).

QUEBEC. 1952, *R.C.N., Official.*

QUEBEC (ex-*Uganda*)

Builders:	Vickers-Armstrongs, Ltd., Tyne
Laid down:	20 July 1939
Launched:	7 Aug. 1941
Completed:	3 Jan. 1943

Displacement :	8,000 tons designed (10,840 tons *full load*)
Dimensions:	549 (*w.l.*), 555½ (*o.a.*) feet. Beam: 61½ feet. Draught: 16½ (*mean*), 21½ (max) feet
Guns :	9—6 inch, 8—4 inch, 12—2 pdr., 8—40 mm.
Tubes:	6—21 inch
Armour:	4"—3" side
Machinery:	Parsons geared turbines. 4 shafts. S.H.P.: 72,000 = 31 kts.
Boilers:	4 Admiralty 3-drum type
Complement:	730



Notes.—Was presented to the Royal Canadian Navy by Great Britain on Oct. 21, 1944. Claims the distinction of having been the first ship in the Royal Canadian Navy to have sailed round Cape Horn. Winterized. Employed as Training Cruiser on East Coast. Type Designator and Hull No. : CL 31. Identification Mark : UG.

Destroyers (DDE).

7 Improved "Tribal" Class.

NOOTKA 1953, *A. & J. Pavia.*

HURON. 1951, *R.C.N., Official.*

HAIDA 1953, *R.C.N., Official.*

MICMAC 1952, *R.C.N., Official.*

IROQUOIS. 1952, *R.C.N., Official*

ATHABASKAN. 1950, *R.C.N., Official.*

GROUP I (Built in Great Britain)
3 by *Vickers-Armstrongs, Ltd. (Tyne)*

HAIDA **IROQUOIS**
HURON

GROUP II (Built in Canada)
4 by *Halifax Shipyards, Ltd., Halifax*

ATHABASKAN **MICMAC**
CAYUGA **NOOTKA**

Displacement:	1,927 tons (2,745 tons *full load*)
Dimensions:	355½ × 37½ × 9½ feet
Guns:	*Athabaskan*: 8—4 inch, 6—40 mm. AA., 4—20 mm. AA. (see notes) *Cayuga, Haida, Huron, Iroquois* and *Micmac*: 4—4 inch, 2—3 inch, 4—40 mm. AA. *Nootka*: 6—4 inch, 4—40 mm. AA., 4—20 mm. AA. (see notes)
A/S Weapons:	2 Squids in *Cayuga, Haida, Huron, Iroquois* and *Micmac*
Tubes:	4—21 inch
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 44,000 = 36·5 kts. (34 kts. sea speed)
Boilers:	3 Admiralty 3-drum type
Complement:	240

General Notes.—All these ships have been or are being refitted and fully modernised. *Cayuga, Haida, Huron, Iroquois* and *Micmac* have all completed the conversion, and *Athabaskan* and *Nootka* will be completed in 1954. All ships of the class will have uniform armament (see above). A new short aluminium foremast fitted in all the ships of this class during the conversion. War loss: *Athabaskan* (built in Great Britain).

No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
DDE 219	*Athabaskan*	See above	19 Sept. 1940	14 May 1946	20 Jan. 1948
DDE 218	*Cayuga*			28 July 1945	20 Oct. 1947
DDE 215	*Haida*		29 Sept. 1941	25 Aug. 1942	18 Sept. 1943
DDE 216	*Huron*		15 July 1941	25 June 1942	28 July 1943
DDE 217	*Iroquois*			23 Sept. 1941	10 Dec. 1942
DDE 214	*Micmac*			18 Sept. 1943	12 Sep. 1945
DDE 213	*Nootka*			26 Apr. 1944	8 Oct. 1946

Anti-Submarine Destroyers (DDE).

2 "Crescent" Class.

CRUSADER (cinder screen on funnel). 1953, R.C.N., *Official.*

	CRESCENT	CRUSADER
Displacement:	1,710 tons (2,560 tons *full load*)	
Dimensions:	362½ × 35½ × 13¾ (*mean*), 16 (*max.*) feet	
Guns:	2—4 inch, 2—3 inch, 4—40 mm. AA. Bofors.	
Tubes:	4—21 inch (quadrupled)	
A/S Weapons:	2 Squids	
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 40,000 = 33 kts.	
Boilers:	2 Admiralty 3-drum type	
Complement:	165 (peace), 250 (war)	

Notes.—Lent to R.C.N. in 1945. Permanently transferred from Great Britain Sept. 1951. Destroyers converted to fast A/S escorts. *Crescent* is being converted similar to *Algonquin* and *Crusader* will be converted likewise at a later date.

No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
DDE 226	*Crescent*	John Brown & Co., Ltd., Clydebank	16 Sept. 1943	20 July 1944	21 Sept. 1945
DDE 228	*Crusader*	John Brown & Co., Ltd., Clydebank	15 Nov. 1943	5 Oct. 1944	26 Nov. 1945

2 "V" Type.

SIOUX. 1952, R.C.N., *Official.*

	ALGONQUIN (ex-*Valentine*, ex-*Kempenfelt*)	SIOUX (ex-*Vixen*)
Displacement:	1,710 tons (2,530 tons *full load*)	
Dimensions:	362½ × 35½ × 10 feet	
Guns:	2—4 inch, 2—3 inch, 4—40 mm.AA.	
A/S Weapons:	2 Squids	
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 40,000 = 34 kts.	
Boilers:	2 Admiralty 3-drum type	
Complement:	230	

Notes.—Transferred from Great Britain early 1944. Destroyers converted to fast A/S escorts. *Algonquin* has been completely converted similar to the British fast anti-submarine frigates of the "R" class, and *Sioux* is undergoing this conversion.

No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
DDE 224	*Algonquin*	John Brown & Co., Ltd., Clydebank	8 Oct. 1942	2 Sept. 1943	28 Feb. 1944
DDE 225	*Sioux*	J. Samuel White & Co., Ltd., Cowes	31 Oct. 1942	14 Sept. 1943	5 Mar. 1944

Anti-Submarine Escorts (DE).

New Construction.

14 Frigate Type (Rated as Destroyer Escorts).

ST. LAURENT. 1952, R.C.N., *Official.*

ASSINIBOINE **MARGAREE** **SAGUENAY** **SKEENA**
FRASER **OTTAWA** **ST. LAURENT**

Displacement:	2,000 tons
Guns:	2 twin 3-inch mountings, 50 cal. AA. (U.S. pattern); 2—40 mm. AA. Bofors (single)
A/S Weapons:	2 Ahead-projecting improved Squids (triple)
Machinery:	Geared Steam Turbines. 2 shafts. Speed over 20 kts.
Cost:	$8,000,000 each
Complement:	270

General Notes.—Officially classed as major warships and as such are the first to be designed completely in Canada. These anti-submarine escort vessels or frigates of a high-speed type are being built primarily for the detection and destruction of modern fast submarines, and in evolving their design much assistance has been received from the Royal Navy and the United States Navy. In function the vessels will supersede the frigates and corvettes of the last war, and like the corvettes their design has been worked out so that in the event of emergency they can be produced rapidly and in quantity. In speed, manoeuvrability and weapons the ships will fulfil all the requirements of their class for modern sea warfare. Design provides for flush deck, low bridge, considerable use of aluminium instead of steel for the superstructure, fittings and furniture and compartmented hull. The first of the class underwent her trials in the summer of 1953.

Engineering Notes.—Propelling machinery is of British design. Yarrow & Co., Scotstoun, Glasgow received an order from Canadian Vickers for the supply of a complete set of machinery for one of these frigates, the others being supplied with similar machinery manufactured in Canada. The main turbines and condensers are of English Electric design.

Note.—All details and photographs have been furnished by courtesy of the Canadian Department of National Defence in Ottawa.

No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
DE 205	*St. Laurent*	Canadian Vickers, Ltd.	22 Nov. 1950	30 Nov. 1951	1954
DE 206	*Saguenay*	Halifax Shipyards	4 Apr. 1951		1954
DE 207	*Skeena*	Burrard Dry Dock & Shipbuilding	1 June 1951		1954
DE 229	*Ottawa*	Canadian Vickers, Ltd.	8 June 1951		1954
DE 230	*Margaree*	Halifax Shipyards	24 Sep. 1951		1954
DE 233	*Fraser*	Burrard Dry Dock & Shipbuilding	11 Dec. 1951		1954
DE 234	*Assiniboine*	Marine Industries, Ltd.	May 1952		1954
DE 235					
DE 236					
DE 237					
DE 257		Officially stated will be launched in 1953 and early 1954			
DE 258					
DE 259					
DE 260					

Frigates (FFE)

21 Modernised Canadian "River" Class (A/S Conversion) + 3 Weatherships.

SWANSEA. 1952, *Wright & Logan.*

BEACON HILL. 1952, *R.C.N., Official.*

No.		Launched	No.		Launched
FFE 301	**ANTIGONISH**	10 Feb. 1944	FFE 310	**OUTREMONT**	3 July 1943
FFE 303	**BEACON HILL**	6 Nov. 1943	FFE 316	**PENETANG** (ex-*Rouyn*)	6 July 1944
FFE 314	**BUCKINGHAM** (ex-*Royal Mount*)	28 Apr. 1944	FFE 307	**PRESTONIAN** (ex-*Beauharnois*)	22 June 1944
FFE 317	**CAP DE LA MADELEINE**	13 May 1944	FFE 324	**ST. CATHERINES**	6 Dec. 1942
FFE 312	**FORT ERIE** (ex-*La Tuque*)	27 May 1944	FFE 323	**ST. STEPHEN**	6 Feb. 1944
FFE 308	**INCH ARRAN**	6 June 1944	FFE 309	**ST. THERESE**	16 Oct. 1943
FFE 318	**JONQUIERRE**	28 Oct. 1943	FFE 311	**STETTLER**	10 Sep. 1943
FFE 305	**LA HULLOISE**	29 Oct. 1943	FFE 302	**STONETOWN**	28 Mar. 1944
FFE 321	**LANARK**	10 Dec. 1943	FFE 313	**SUSSEXVALE** (ex-*Valdorian*)	12 July 1944
FFE 322	**LAUZON** (ex-*Glace Bay*)	10 June 1944	FFE 306	**SWANSEA**	19 Dec. 1942
FFE 315	**NEW GLASGOW**	5 May 1943	FFE 319	**TORONTO** (ex-*Gifford*)	18 Sep. 1943
FFE 304	**NEW WATERFORD**	3 July 1943	FFE 320	**VICTORIAVILLE**	23 June 1944

Displacement:	1,445 tons (2,360 tons *full load*)
Dimensions:	301½ × 36½ × 12 feet
Guns:	2—4 inch, 6—20 mm. AA., (except *Stonetown, St. Catherines, St. Stephen*, 1—12 pdr.)
A/S Weapons:	2 Squids
Machinery:	Trip e expansion. 2 shafts. I.H.P.: 5,500 = 20 kts.
Boilers:	2 Admiralty 3-drum type
Complement:	140

Notes.—Of similar design to British "River" class. *Prestonian* completed anti-submarine conversion 1953. All remainder except *Stonetown, St. Catherines*, and *St. Stephen* being converted similarly. All redesignated FFE (instead of PF) in 1953.

Ocean (Escort) Minesweepers (FSE).

9 Canadian "Algerine" Class.

PORTAGE. 1952 *R.C.N. Official.*

SAULT STE. MARIE. 1952 *R.C.N., Official.*

No.		Launched	No.		Launched
FSE 170	**FORT FRANCES**	30 Oct. 1943	FSE 173	**ROCKCLIFFE**	19 Aug. 1943
FSE 171	**KAPUSKASING**	22 July 1943	FSE 176	**SAULT STE. MARIE** (ex-*Soo*)	5 Aug. 1942
FSE 168	**NEW LISKEARD**	14 Jan. 1944	FSE 172	**WALLACEBURG**	17 Dec. 1942
FSE 174	**OSHAWA**	6 Oct. 1943	FSE 177	**WINNIPEG**	19 Sep. 1942
FSE 169	**PORTAGE**	21 Nov. 1942			

Displacement:	1,040 tons (1,335 tons *full load*)
Dimensions:	225 (*pp.*), 235½ (*o.a.*) × 35½ × 11 (*max.*) feet
Guns:	1—4 inch, 1—40 mm.
A/S Weapons:	1 hedgehog. 2 D.C. Throwers
Machinery:	Triple expansion. 2 shafts. I.H.P.: 2,000 = 16·5 kts.
Boilers:	2, of 3-drum type
Complement:	85

Notes.—Of same type as British "Algerine" class. *New Liskeard*, formerly employed as seagoing training ship is now used for Bathythermeographic duties at Halifax. *Fort Francis* and *Kapuskasing* on loan to Dept. of Mines and Technical Surveys. All redesignated FSE (instead of AM) in 1953.

Coastal Escorts (Fleet Minesweepers) (FSE).

18 Canadian "Bangor" Class.

No.		Launched
FSE 193	**BLAIRMORE**	14 May 1942
FSE 181	**DRUMMONDVILLE**	21 May 1941
FSE 195	**FORT WILLIAM**	30 Dec. 1941
FSE 184	**GANANOQUE**	23 Apr. 1941
FSE 198	**GODERICH**	14 May 1941
FSE 191	**KENORA**	5 Aug. 1942
FSE 182	**KENTVILLE**	17 Apr. 1942
FSE 186	**MALPEQUE**	5 Sep. 1940
FSE 197	**MEDICINE HAT**	25 June 1941
FSE 192	**MAHONE**	14 Nov. 1940
FSE 194	**MILLTOWN**	5 Aug. 1942
FSE 189	**MINAS**	23 Jan. 1941
FSE 188	**NIPIGON**	1 Oct. 1940
FSE 183	**PORT HOPE**	14 Dec. 1941
FSE 196	**RED DEER**	5 Oct. 1942
FSE 190	**SARNIA**	21 Jan. 1942
FSE 185	**SWIFT CURRENT**	29 May 1941
FSE 187	**WESTMOUNT**	15 Sep. 1942

Displacement :	672 tons (900 tons *full load*)
Dimensions :	171½ (*pp.*), 180 (*o.a.*) × 28½ × 9½ feet
Guns :	1—4 inch AA., 2—20 mm. AA., 4 M.G.
Machinery :	Triple expansion 2 shafts. I.H.P. : 2,400 = 16½ kts.
Boilers :	2 Admiralty 3-drum type
Complement :	70

Notes.—All the above ships were discarded after the Second World War but were reacquired by the Royal Canadian Navy in 1952 Former Fleet Minesweepers redesignated Coastal Escorts (FSE) in 1953.

Loop Layers.

New Construction.

1 George T. Davie & Sons, Ltd., Lauzon, P.Q.

Note.—Authorised under 1951 Programme.

1 Corvette Type.

SACKVILLE

Launched:	15 May 1941
Displacement:	1,060 tons (1,350 tons *full load*)
Dimensions:	190 (*pp.*), 205 (*o.a.*) × 33 × 14½ feet
Guns:	1—4 inch, some smaller
Machinery:	Triple expansion. I.H.P.: 2,750 = 16 kts.
Boilers:	2 S.E.

Notes.—Ex-" Flower " class corvette.

Coastal Escort Vessels (Minesweepers) (FSE).

3 Canadian "Bangor" Class (Diesel).

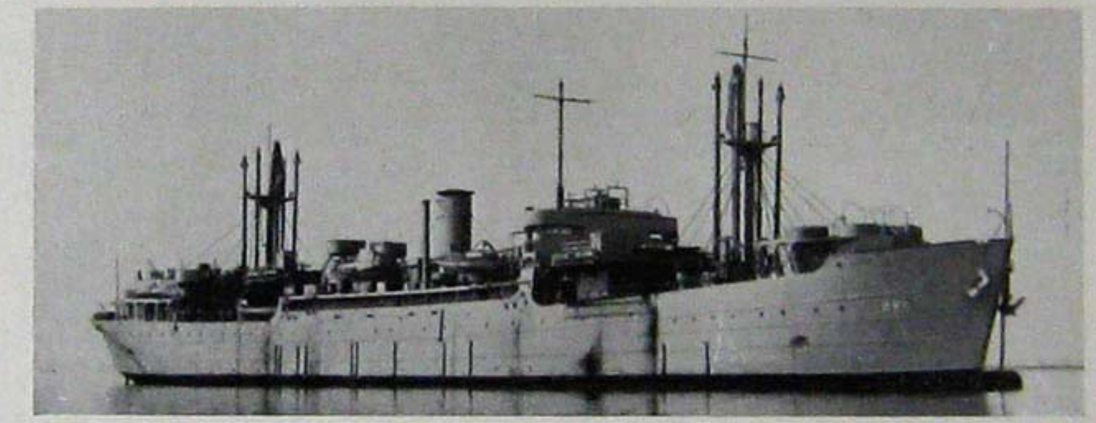
BROCKVILLE. 1952, *R.C.N., Official.*

No.		Launched
FSE 178	**BROCKVILLE** (ex-R.C.M.P. *Macleod*, ex-H.M.C.S. *Brockville*)	20 June 1941
FSE 179	**DIGBY**	5 June 1942
FSE 180	**GRANBY**	9 June 1941

Displacement:	590 tons (790 tons *full load*)
Dimensions:	162 × 28 × 3½ feet
Guns :	1—40 mm., 2—20 mm. AA.
Machinery:	Diesel. 2 shafts. B.H.P.: 2,000 = 16 kts.
Complement:	60

Notes.—*Brockville* was transferred to Royal Canadian Mounted Police Marine Section after the Second World War, but reacquired for Royal Canadian Navy 1951, *Digby* and *Granby* were allocated to R.C.M.P., but were never taken over. Employed as tender to the Naval Reserve Division at Halifax, St. John, N.B., and Cornerbrook, Nfld. Have been converted to coastal escort vessels.

Escort Maintenance Ships.



CAPE SCOTT 1951, *P. A. Vicary.*

CAPE BRETON (*ex-Flamborough Head*) **CAPE SCOTT** (*ex-Beachy Head, ex-Vulkaan, ex-Beachy Head*)

Displacement:	8,580 tons
Dimensions:	439 × 62 × 29 feet
Guns:	16—20 mm. AA.
Machinery:	Geared turbines. S.H.P.: 6,000 = 17 kts.
Boilers:	2 Foster Wheeler

Notes.—Both built at Vancouver, B.C. Launched 1944. *Cape Breton*, which is employed as a training ship for Artificers served in Royal Navy as the escort maintenance ship *Flamborough Head*. Returned to Canada from the United Kingdom in 1951 and in turn acquired by the Royal Canadian Navy and renamed 1953. *Beachy Head*, served in the Royal Navy until 1947, when she was lent to the Royal Netherlands Navy. Returned to Royal Navy 1950. Acquired by R.C.N. 1952 and once more renamed 1953.

Controlled Minelayer.

WHITETHROAT 1952, *R.C.N., Official.*

WHITETHROAT

Builders:	Cook Welton & Gemmell, Ltd., Beverley, E. Yorks.
Launched:	6 Sept. 1944
Displacement:	580 tons (790 tons *full load*)
Dimensions:	150 (*pp.*), 164 (*o.a.*) × 27½ × 12½ feet
Guns:	1—4 inch AA., etc.
Machinery:	Triple expansion. I.H.P.: 850 = 12·5 kts.
Boiler:	1 cylindrical

Motor Minesweeper (YMS)

CORDOVA 1953, *R.C.N. Official.*

CORDOVA (ex-YMS 420)

Builders:	Harry C. Grebe, Chicago, Ill.
Displacement:	325 tons
Dimensions:	136 × 24½ × 8 feet
Machinery:	Diesel. B.H.P.: 1,000 = 15 kts.
Complement:	30

Notes.—Ex-U.S. Auxiliary Motor Minesweeper. Purchased and taken over by the Royal Canadian Navy 3rd Dec. 1951. Employed as tender to Vancouver Naval Reserve Division.

Coastal Minesweepers (AMC).

14 "Gaspe" Class.

CHALEUR
CHIGNECTO
COMOX
COWICHAN
GASPE
FORTUNE
FUNDY
JAMES BAY
MIRAMICHI
QUINTE
RESOLUTE
THUNDER
TRINITY
UNGAVA

Displacement:	370 tons
Dimensions:	140 (*p.p.*), 152 (*o.a.*) × 28 × 8½ feet
Guns:	1—40 mm.
Machinery:	Diesels. 2 shafts. B.H.P.: 2,500 = 16 kts.
Complement:	5 officers, 39 ratings

Notes.—Extensively built of aluminium, including frames and decks. Four ordered under 1950 Programme and ten under 1951 Programme. Named after Canadian straits and bays. Other names considered were *Belle Isle, Conso,* and *Chantry.*

No.	*Name*	*Builders*	*Laid down*	*Launched*
144	*Chaleur*	Port Arthur	8 June 1951	21 June 1952
156	*Chignecto*	Marine Industries	4 June 1951	12 May 1952
146	*Comox*	Victoria Machinery	21 Mar. 1951	24 Apr. 1952
147	*Cowichan*	Davie Shipbuilding	20 June 1951	12 Nov. 1951
143	*Gaspe*	Davie Shipbuilding	21 Mar. 1951	12 Nov. 1951
151	*Fortune*	Victoria Machinery	24 Apr. 1952	Mar. 1953
145	*Fundy*	St. John Dry Dock	19 June 1951	Apr. 1953
152	*James Bay*	Yarrows	16 Aug. 1951	Mar. 1953
150	*Miramichi*	St. John Dry Dock	15 May 1952	Summer 1953
149	*Quinte*	Port Arthur	2 May 1952	Apr. 1953
154	*Resolute*	Kingston Shipyard	29 Aug. 1951	Apr. 1953
153	*Thunder*	Canadaian Vickers	17 May 1951	17 July 1952
157	*Trinity*	Geo. T. Davie	31 Jan. 1952	Apr. 1953
148	*Ungava*	Davie Shipbuilding	17 Dec. 1951	Apr. 1953

2 "Llewellyn" Type.

LLEWELLYN. 1950, *R.C.N., Official.*

LLEWELLYN (AMC 141) **REVELSTOKE**

Displacement:	255 tons (360 tons *full load*)
Dimensions:	105 (*pp.*), 119 (*o.a.*) × 23 × 10½ (*max.*) feet
Machinery:	Diesel. B.H.P.: 500 = 10 kts.
Complement:	20

Notes.—Wood. Similar to smaller MMS in Royal Navy. *Llewellyn* launched 12 Aug. 1942. *Llewellyn* and *Revelstoke* employed as tenders at St. John, N.B. and St. John's, Newfoundland. *Lloyd George* of this class was scrapped in 1952.

Motor Launches (PTC).

1950, *R.C.N., Official.*

PTC 704 (ML 104) **PTC 716** (ML116) **PTC 762** (ML 062)
PTC 706 (ML 106) **PTC 724** (ML 124) **PTC 779** (ML 079)
PTC 711 (ML 111)

Displacement:	65 tons
Dimensions:	112 × 18½ × 4½ feet
Guns:	1—20 mm., 2 M.G. and D.C.
Machinery:	2 Hall-Scott internal combustion engines. H.P.: 1,260 = 19 kts.
Complement:	18

Notes.—Of the Fairmile "B" type. *PTC 724* is in commission at Esquimalt.

High Speed Launches (HSL).

HSL 232. 1952, *R.C.N., Official.*

HSL 208 **HSL 232** **HSL 233**

Displacement:	30 tons
Dimensions:	70 × 20 × 4½ feet
Machinery:	2 Packard engines. 2 shafts. B.H.P.: 2,700 = 40 kts.
Complement:	10

Notes.—Built by Canadian Power Boat Co., Montreal, P.Q. Used for search and rescue work. These craft were taken over from the R.C.A.F. by R.C.N., 3 Jan. 1952.

Assault Landing Craft.

Note.—A number of LCAs are in service or reserve.

Arctic Patrol Vessel (Icebreaker) (AGB).

Naval Artist's Impression. 1950, *R.C.N., Official.*

LABRADOR (AGB 50)

Builders:	Marine Industries Ltd., Sorel, Quebec
Laid down:	Nov. 1949
Displacement:	5,400 tons
Length:	269 feet
Guns:	Several short-range weapons.
Machinery:	Diesel-electric. B.H.P.: 10,000 = 16 kts
Complement:	173

Notes.—Ordered Feb. 1949. Canada's largest and most modern icebreaker. Steel sides about 2 in. thick, and heating tanks built into her. Another new feature is a flight deck built aft, which will accommodate a seaplane and provide a platform for a helicopter to land. Ship will also carry a landing craft strengthened to resist ice formations.

East Arctic Patrol Vessel and Supply Ship.

C. D. HOWE. 1951, *R.C.N., Official.*

C. D. HOWE

Builders:	Davie Shipyard, Lauzon, Quebec Harbour
Launched:	Sept. 1949
Completed:	July 1950
Displacement:	3,628 tons (5,125 tons *full load*)
Dimensions:	276 (*pp.*), 295 (*o.a.*) × 50 × 18½ (*max.*) feet
Aircraft:	1 helicopter
Speed:	12 kts. (*economical*)
Radius of action:	10,000 miles, with 50 per cent. reserve of fuel

Notes.—Designed as multi-purpose vessel, being icebreaker, meteorological and survey vessel, hospital ship, and potential fleet auxiliary for naval use in war. With a reinforced hull she is of novel streamlined design. Equipped with the latest Arctic navigational apparatus. Lift of forward crane (see photo) 30,000 lb. Under administration of Department of Transport.

Patrol Vessels (AG.).

CEDARWOOD. 1950, *R.C.N., Official.*

CEDARWOOD **EHKOLI**

Displacement:	566 tons
Dimensions:	326 × 30 × 9½ feet
Machinery:	Diesel. B.H.P.: 600 = 11 kts.

Note. Cedarwood is employed on Oceanographical Survey duties in the Esquimalt area.

EHKOLI

Displacement:	154 tons
Dimensions:	84½ × 20 × 9 feet
Machinery:	Diesel. Speed: 10 kts.

Gate Vessels (YNG).

5 "Porte" Class.

PORTE ST. JEAN. 1952, *R.C.N., Official.*

PORTE DAUPHINE **PORTE QUEBEC** **PORTE SAINT-JEAN**
PORTE DE LA REINE **PORTE SAINT-LOUIS**

Displacement:	465 tons
Dimensions:	125½ × 28½ × 13 feet
Machinery:	Diesel. A/C Electric. 1 shaft. B.H.P.: 600 = 11 kts.
Complement:	3 officers, 20 ratings

Notes.—Of trawler design. Multi-purpose vessel—gate vessels used for operating the gates in the A/S booms, fleet auxiliaries, anti-submarine netlayers for entrances to defended harbours. Capable of being fitted for minesweeping.

No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
186	*Porte Dauphine*	Pictou Foundry	16 May 1951	24 Apr. 1952	10 Dec. 1952
184	*Porte de la Reine*	Victoria Machinery	4 Mar. 1951	28 Dec. 1951	19 Sep. 1952
185	*Porte Quebec*	Burrard Dry Dock	15 Feb. 1951	28 Aug. 1951	7 Oct. 1952
180	*Porte St. Jean*	Geo. T. Davie	16 May 1950	21 Nov. 1950	4 June 1952
183	*Porte St. Louis*	Geo. T. Davie	21 Mar. 1951	22 July 1952	28 Aug. 1952

Supply Vessels (AKS).

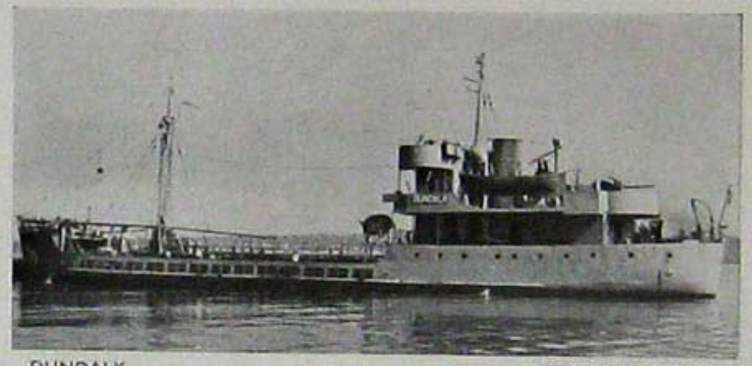
EASTORE. 1952, *R.C.N. Official.*

EASTORE **LAYMORE**

Measurement:	560 tons *gross*, 262 tons *net*.
Dimensions:	176½ × 32 × 8 feet
Machinery:	General Motors Diesel. B.H.P.: 1,000 = 10·8 kts.

Notes.—Small supply vessels for coastal services. Classed as fleet auxiliaries.

Oilers (AO).



DUNDALK. 1949, *R.C.N., Official.*

DUNDALK **DUNDURN**

Displacement:	950 tons
Dimensions:	178¾ × 32½ × 13 feet
Machinery:	Diesel. B.H.P.: 700 = 10 kts.

Notes.—Small vessels designated tankers, and classed as fleet auxiliaries.

A/S TT Vessels.

EASTWOOD **LAKEWOOD** **WILDWOOD**
GREENWOOD **OAKWOOD**

Note.—*Oakwood* loaned to Esquimalt Department of Transport.

Ocean Tugs (ATA).

New Construction.

2 "Modified Norton" Class.

Note.—Authorised under 1951 Programme. Builders, St. John Dry Dock Co.

HEATHERTON — 1952, *R.C.N., Official.*

CLIFTON	HEATHERTON	RIVERTON
Displacement:	462 tons	
Dimensions:	104 (pp.), 111½ (o.a.) × 28 × 11 feet	
Machinery:	Dominion Sulzer Diesel. B.H.P.: 1,000 = 11 kts.	
Complement:	17	

Notes.—*Clifton* launched 31 July 1944. *Beaverton*, of this type, sunk by collision at Montreal in 1947.

Tugs.

7 "Glen" Class.

GLENBROOK	GLENDON	GLENEVIS
GLENDEVON	GLENDYNE	GLENLIVIT II
		GLENSIDE

Dimensions:	80 × 18½ × 10 feet
Machinery:	Diesel. B.H.P.: 300 = 9 kts

Note. Glenlivit II loaned to Halifax Department of Public Works.

10 "Ville" Class.

ADAMSVILLE	ECKVILLE	LISTERVILLE
BEAMSVILLE	HAYSVILLE	MANNVILLE
COLVILLE	LAURENCEVILLE	MERRICKVILLE
		PARKSVILLE

Note.—Majority employed on towing duties at Esquimalt and Halifax.

N.F.T. No. 1	N.F.T. No. 2	N.F.T. No. 3

Note.—Naval fire tugs.

Yachts.

GRILSE (ex-*Dontaff*). Yacht	TUNA (ex-*Seerauber*). Yacht
ORIOLE. Yacht	VERAINE Admiral's Barge

Notes.—All at Halifax. *Grilse* and *Tuna* in reserve.

Tenders.

Note.—A number of devising tenders are maintained.

ROYAL CANADIAN MOUNTED POLICE MARINE SECTION.

4 "Commissioner" Class.

(*Ex-Fleet Minesweepers*).

1950, *R.C.N., Official.*

CYGNUS (ex-*Melville*)	IRVINE (ex-*Noranda*)
FRENCH (ex-*Transcona*)	MACBRIEN (ex-*Trois Rivieres*)
Displacement:	590 tons (790 tons *full load*)
Dimensions:	162 × 28 × 8½ feet
Machinery:	Diesel. 2 shafts. B.H.P.: 2,000 = 16 kts.

Notes.—All ex-minesweepers of Canadian "Bangor" type. *Macleod* (ex-*Brockville*) reverted to Royal Canadian Navy 1951. Fleet minesweepers of this type, *Digby*, to have been renamed *Colonel White*, and *Granby*, to have been renamed *Perry*, were never actually taken over and commissioned by the R.C.M.P. and have reverted to the R.C.N. (see earlier page). *Herchmer* (ex-*Truro*) and *Starnes* (ex-*Lachine*) were turned over to War Assets as surplus and disposed of.

Name	*Launched*	*Name*	*Launched*
Cygnus	7 June 1941	*Irvine*	30 June 1941
French	26 Apr. 1941	*Macbrien*	30 June 1941

4 "Fort" Class.

(*Fairmile "B" Type Motor Launches*).

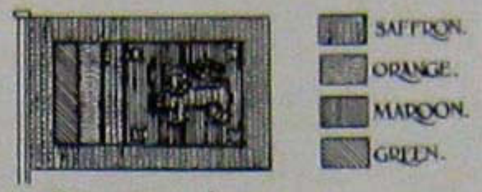
FORT WALSH. — 1950, *R.C.N., Official.*

FORT PITT (ex-*ML 119*)	FORT STEEL (ex-*ML 117*)
FORT SELKIRK (ex-*ML 114*)	FORT WALSH (ex-*ML 112*)
Dimensions:	112 × 17½ × 4½ feet
Machinery:	2 Hall-Scott Defender engines. B.H.P.: 1,260 = 20 kts.

Note.—There are also over a dozen harbour patrol craft.

ROYAL CEYLON NAVY

Flags.



NATIONAL and JACK.

Vessels of the Royal Ceylon Navy wear the White Ensign. The Ceylonese Flag as shown is flown as a Jack.

Administration.

The Royal Ceylon Navy came into being on 9 Dec. 1950, the date on which the Navy Act was proclaimed in the Ceylon Government Gazette Extraordinary.

Captain of the Navy: Captain J. R. S. Brown, R.N.
Chief of Staff: Commander G. R. M. de Mel, O.B.E., R.Cy.N.

Personnel.

35 officers and 458 ratings

Naval Establishments.

H.M.Cy.S. *Gemunu* at Colombo.
H.M.Cy.S. *Rangalla*, A Training Camp at Diyatalawa.

Ocean Minesweeper.

1951, *Royal Ceylon Navy, Official.*

VIJAYA (ex-H.M.S. *Flyingfish*, ex-*Tilsonburg*)

Builders:	Redfern Construction Co.
Laid down:	30 Oct. 1943
Launched:	16 Feb., 1944
Displacement:	1,040 tons (1,335 tons *full load*)
Dimensions:	235 (o.a.) × 35½ × 11½ (*max.*) feet
Guns:	1—4 inch, 4—40 mm. AA., 2 D.C.T.
Machinery:	Triple expansion, 2 shafts. I.H.P.: 2,000 = 16.5 kts.
Boilers:	2, of 3-drum type
Complement:	85

Notes.—Formerly of the fastest and most efficient class of minesweepers, frequently used as escort vessels, in the British Navy. Transferred to Ceylon Government, Sept., 1949. Pendant No. M 370.

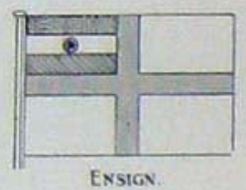
INDIAN NAVY

Flags.

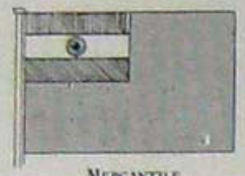
PRESIDENT

Note.—Upper 1sft and bottom right cantons are blue, remaining two red.)

JACK



ENSIGN.



MERCANTILE.

Note.—Size of the Ensign has now been changed to length one and a half times the breadth to bring it into line with British White Ensign.)

Flags: I.N. ships fly as an ensign a white flag bearing a red St. George's Cross with the Indian Flag (as above) in the upper canton next to the staff. A white pendant is flown at the masthead. The Indian Flag (as above) is flown as a Jack. Flag Officers fly the flag appropriate to their naval rank.

Administration.

Chief of Naval Staff and Commander-in-Chief, Indian Navy : Vice-Admiral C. T. M. Pizey, C.B., D.S.O. & Bar.
Deputy C.-in-C. and Chief of Staff : Commodore G. A. French, R.N.
Flag Officer Flotilla, Indian Fleet : Rear-Admiral N. V. Dickinson, D.S.O., and Bar, D.S.C.
Chief of Personnel : Captain B. A. Samson, I.N.
Chief of Material : Captain I. F. M. Newnham, R.N.
Chief of Administration : Captain M. K. Heble, I.N.
Chief of Naval Aviation : Captain J. E. Smallwood, R.N.

Naval Advisor, London : Captain G. S. Kapoor, I.N.

Personnel.

1,000 officers; 10,000 ratings.

Naval Establishments.

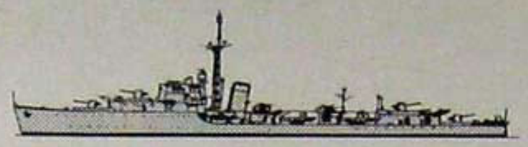
Naval Headquarters at New Delhi.
I.N.S. *Venduruthy* at Cochin (Gunnery, Torpedo and Anti-Submarine, Communications, Seamanship, Navigation, and Supply and Secretariat Schools). I.N.S. *Venduruthy II* at Cochin (Naval Air Station).
I.N.S. *Circars* at Vizagapatam (Boys' Training Establishment).
I.N.S. *Valsura* at Jamnagar (Electric and Radar School).
I.N.S. *Angre* at Bombay (Indian Naval Barracks).
I.N.S. *Shivaji* at Lonavla (Mechanical Training Establishment).
I.N.S. *Ashvini* at Bombay (Indian Naval Hospital)

Since 26 Jan., 1950, the former "Royal Indian Navy" has been known as "Indian Navy" and ships referred to as "I.N.S." instead of "H.M.I.S."

Silhouettes.

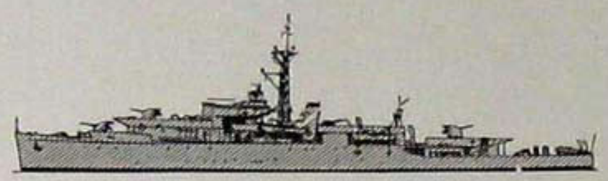
* Scale : 150 ft. = 1 inch.

DELHI.



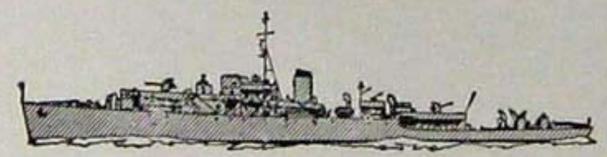
RANA.*
(RANJIT without ▲ on foremast).

RAJPUT.*



CAUVERY.

SUTLEJ.
(JUMNA without lower projection on mast).



INVESTIGATOR.

ROHILKHAND.*

Mercantile Marine.

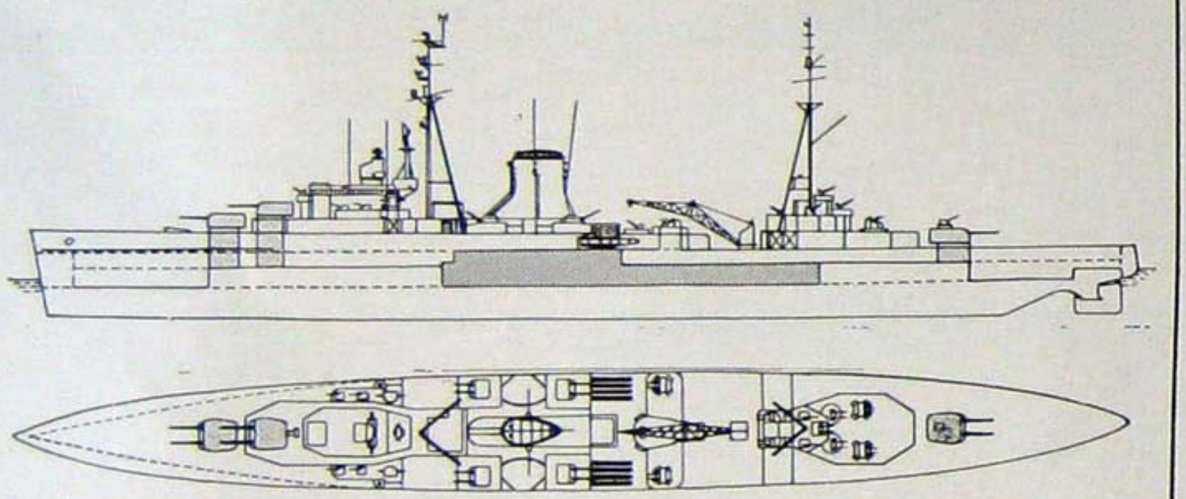
Lloyd's Register appendix, 1953 : 200 vessels of 480,107 tons gross.

Cruiser.

DELHI. 1951, *I.N., Official.*

DELHI (*ex-Achilles*)

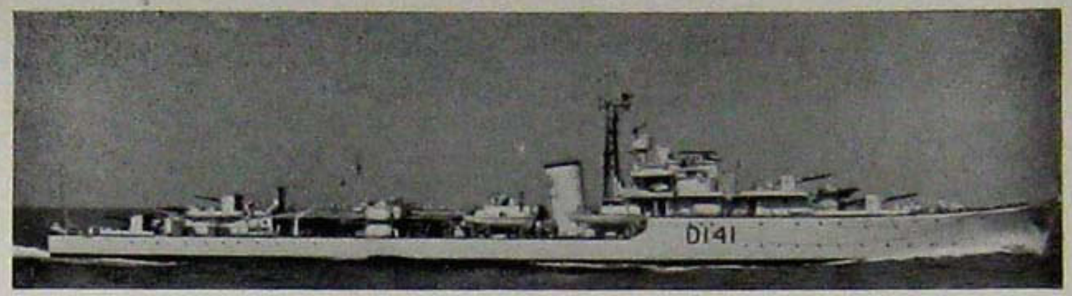
Builders:	Cammell Laird & Co., Ltd., Birkenhead
Laid down:	11 June 1931
Launched:	1 Sept. 1932
Completed:	10 Oct. 1933
Displacement:	7,030 tons (9,740 tons *full load*).
Length:	530 (pp.), 554½ (o.a.) feet. Beam: 55½ feet. Draught: 16 feet (*mean*), 20 feet (*max.*)
Guns:	6—6 inch, 8—4 inch AA., 15—40 mm. AA., 4—3 pdr.
Tubes:	8—21 inch (quadrupled)
Armour:	4"—2" side, 1" gunhouses, 1" bridge, 2" deck
Machinery:	Parsons geared turbines. 4 shafts. S.H.P.: 72,000 = 32 kts.
Boilers:	4 Admiralty 3-drum type
Oil fuel:	1,800 tons
Complement:	680



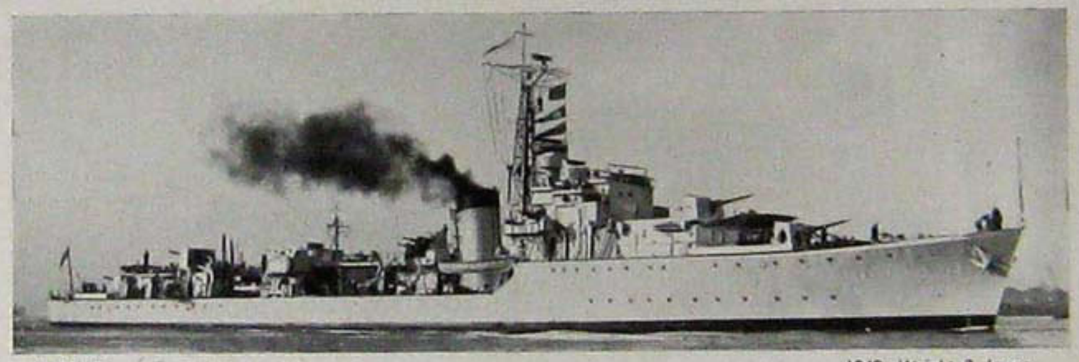
Notes.—Purchased from Great Britain and delivered 5 July, 1948. As H.M.S. *Achilles*, this ship, with H.M.S. *Ajax* and H.M.S. *Exeter*, defeated the German armoured ship (pocket battleship) *Admiral Graf Spee* in the Battle of the River Plate, 17 Dec. 1939. The *Achilles* was at that time lent to the Royal New Zealand Navy.

Destroyers.

RANA. 1553, *I.N., Official.*



RANJIT 1951, *I.N., Official.*



RAJPUT. 1949, *Wright & Logan.*

RANA (ex-*Raider*) **RAJPUT** (ex-*Rotherham*), Leader **RANJIT** (ex-Redoubt)

Displacement:	1,705 tons (*Rajput* 1,750 tons) *standard*; 2,425 tons (*Rajput* 2,510 tons) *full load*
Dimensions:	358½ × 35½ × 9½ (*mean*), 16 (*max.*) feet
Guns:	4—4·7 inch, 4—2 pdr. pompoms, 6—20 mm. AA.: but *Rana* and *Ranjit* have 4—40 mm. AA.
Tubes:	8—21 inch (two quadruple mountings), 4 D.C.T.
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 40,000 = 34 kts. (*max.*), 32 kts. sea speed
Boilers:	2 Admiralty 3-drum type

General Notes.—First British destroyers with officers' accommodation forward instead of aft. Refitted and modernised prior to transfer, *Ranjit* July 4, 1949; *Rajput* July 29, 1949; *Rana* Sept., 1949. Arrived in Indian waters Jan. 1950. Constitute the 11th Destroyer Squadron of which *Rajput* is Leader.

Pendant No.	*Name*	*Builders*	*Begun*	*Launched*	*Completed*
D 115	*Rana*	Cammell Laird & Co., Ltd., Birkenhead	16 Apr. 1941	1 Apr. 1942	16 Nov. 1942
D 209	*Rajput*	John Brown & Co., Ltd., Clydebank	10 Apr. 1941	21 Mar. 1942	27 Aug. 1942
D 141	*Ranjit*	John Brown & Co., Ltd., Clydebank	19 June 1941	2 May 1942	1 Oct. 1942

Frigates (ex-*Escort Destroyers*).

3 "Hunt" Type II.

GANGA (ex-*Chiddingfold*) **GODAVARI** (ex-*Bedale*, ex-*Slazak*, ex-*Bedale*) **GOMATI** (ex-*Lamerton*)

Displacement :	1,050 tons *standard* (1,610 tons *full load*)
Dimensions :	264¼ (p.p.), 280 (o.a.) × 31½ × 7¾ (mean), 14 (*max.*) feet
Guns :	6—4 inch AA., 4—2 pdr. pompoms, 2 to 4—20 mm. AA.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 19,000 = 25 kts.
Boilers :	2 Admiralty 3-drum type
Oil fuel :	280 tons
Complement :	146

Notes.—"Hunt" class, Type II. Transferred from Great Britain April/May, 1953. Lent to Indian Navy for a period of three years, subject to extension by agreement.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 131	*Ganga*	Scott's Shipbuilding & Engineering Co. Ltd. Greenock	1 Mar. 1940	10 Mar. 1941	16 Oct. 1941
F 126	*Godavari*	R. & W. Hawthorn, Leslie & Co. Ltd, Hebburn	29 May 1940	5 Sep. 1941	18 June 1942
F 88	*Gomati*	Swan, Hunter & Wigham Richardson, Ltd. Wallsend	10 Apr. 1940	14 Dec. 1940	16 Aug. 1941

Frigates (ex-*Sloops*).

2 "Cauvery" Class.

CAUVERY. 1951, *I.N., Official.*

CAUVERY **KISTNA**

Displacement:	1,470 tons (1,925 tons *full load*)
Dimensions:	292½ (pp.), 299½ (o.a.) × 38½ × 11½ feet
Guns:	6—4 inch, 2—40 mm. AA., 2—20 mm. AA., 110 D.C. carried
Machinery:	Parsons geared turbines 2 shafts. S.H.P.: 4,300 = 19 kts
Boilers:	2, of 3-drum type
Complement:	214

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 110	*Cauvery*	Yarrow & Co., Ltd., Scotstoun, Glasgow	28 Oct. 1942	15 June 1943	21 Oct. 1943
F 46	*Kistna*		14 July 1942	22 Apr. 1943	26 Aug. 1943

Frigates (ex-*Sloops*)—*continued.*

2 "Jumna" Class.

JUMNA. 1951, *I.N., Official.*

SUTLEJ. 1948, *A. & J. Pavia.*

JUMNA **SUTLEJ**

Displacement:	1,300 tons (1,735 tons *full load*)
Dimensions:	266 (*w.l.*), 292½ (o.a.) × 37½ × 10½ (*mean*) feet
Guns:	6—4 inch, 6—20 mm. AA., 4 D.C.T. (88 D.C's.)
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 3,600 = 18 kts.
Boilers:	2 Admiralty 3-drum type
Complement:	160 to 197

Note.—Above two ships together with the *Cauvery* and *Kistna* (see adjoining column) constitute the 12th Frigate Squadron.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 11	*Jumna*	Wm. Denny & Bros., Ltd., Leven Shipyard, Dumbarton	20 Feb. 1940	16 Nov. 1940	13 May 1941
F 95	*Sutlej*		4 Jan. 1940	1 Oct. 1940	23 Apr. 1941

INDIA—Modified Frigates, Fleet Minesweepers

Training Frigate.

1953, *I.N. Official.*

TIR (ex-*Bann*)

Builders:	Charles Hill & Sons, Ltd., Bristol
Laid down:	18 June 1942
Launched:	29 Dec. 1942
Completed:	7 May 1943
Displacement:	1,460 tons *standard* (2,000 tons *full load*)
Dimensions:	301½ (*o.a.*), 283 (*pp.*) × 36½ × 14 feet
Guns:	2—4 inch
Machinery:	Reciprocating vertical 4-cylinder triple expansion. 2 shafts. I.H.P.: 5,500 = 18 kts.
Boilers:	2 Admiralty 3-drum type
Oil fuel:	440 tons
Complement:	118

Notes.—Former " River " class frigate in Royal Navy. Converted to Training Frigate by Bombay Dockyard, 1948. Pendant No. F 256.

Surveying Vessel (Frigate).

1952, *I.N., Official.*

INVESTIGATOR (ex-*Kukri*, ex-*Trent*)

Builders:	Charles Hill & Sons, Ltd., Bristol
Laid down:	31 Jan. 1942
Launched:	10 Oct. 1942
Completed:	27 Feb. 1943
Displacement:	1,460 tons (2,000 tons *full load*)
Dimensions:	301½ (*o.a.*) × 36½ × 12 feet
Machinery:	Triple expansion. I.H.P.: 5,500 = 20 kts. (*max.*)
Boilers:	2 Admiralty 3-drum type

Notes.—Former " River " class frigate in Royal Navy. Converted to a surveying vessel and renamed *Investigator* in 1951. Sister ship of training frigate *Tir*, above. Pendant No. F 243.

Fleet Minesweepers.

3 " Bathurst " Class.

BENGAL **BOMBAY** **MADRAS**

Displacement:	790 tons *standard* (1,025 *full load*)
Dimensions:	186½ × 31 × 8½ feet
Guns:	1—12 pdr., 1—40 mm. AA., 2—20 mm. AA.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 2,000 = 15 kts.
Boilers:	2 Admiralty 3-drum, small tube type
Complement:	87

Note.—Designed displacement was 650 tons *standard* (860 tons *full load*)

Pendant No.	*Name*	*Builders*	*Launched*
M 243	*Bengal*	Cockatoo Docks, Sydney	1942
M 249	*Bombay*	Mort's Dock, Sydney	1942
M 237	*Madras*	Cockatoo Docks, Sydney	1942

3 " Bangor " Class.

ROHILKHAND. 1952, *I.N., Official.*

ROHILKHAND (ex-*Padstow*

Displacement:	605 tons (780 tons *full load*)
Dimensions:	174 (*o.a.*) × 28½ × 10½ feet
Guns:	3—20 mm.
Machinery:	Geared turbines by Parsons Co. 2 shafts. I.H.P.: 2,000 = 15·5 kts.
Boilers:	2 Admiralty 3-drum type
Complement:	87

KONKAN (ex-*Tilbury*) **RAJPUTANA** (ex-*Lyme Regis*)

Displacement:	656 tons (825 tons *full load*)
Dimensions:	171½ (*pp.*), 180 (*o.a.*) × 28½ × 9½ feet
Guns:	*Rajputana*, 1—12 pdr., 1—2 pdr., 2—20 mm.; *Konkan*, 1—2 pdr., 4 M.G.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 2,000 = 16·5 kts.
Boilers:	2 Admiralty 3-drum type
Complement:	87

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
M 228	*Konkan*	Lobnitz & Co., Ltd., Renfrew	15 Aug. 1941	18 Feb. 1942	12 June 1942
M 197	*Rajputana*	Lobnitz & Co., Ltd. Renfrew	21 Jan. 1941	31 Dec. 1941	30 Apr. 1942
M 180	*Rohilkhand*	Wm. Hamilton & Co., Ltd., Port Glasgow	29 Aug. 1941	29 Oct. 1942	5 Feb. 1943

Note.—The above six ships of the " Bangor " and " Bathurst " classes constitute the 37th Minesweeping Squadron.

Motor Minesweepers

BARQ (ex-MMS 132) **MMS 130** **MMS 154**

Displacement:	282 tons
Dimensions:	105 (o.a.) × 23 × 9½ feet
Guns:	2—20 mm. AA., 2 M.G.
Machinery:	Diesel. B.H.P.: 500 = 10 kts.
Complement:	30

Note.—Of wooden construction.

Torpedo Motor Launch.

1952, *I.N. Official.*

ML 420

Displacement :	65 tons
Dimensions :	112 × 18½ × 5 (*max.*) feet
Guns :	1—40 mm. AA., 3—20 mm. AA.
Machinery :	2 Hall-Scott Defender engines. B.H.P. : 1,200 = 20 kts.
Complement :	18

Notes.—Fairmile "B" type. At Bombay for training duties. Used as a Torpedo School Torpedo Firing Ship. Pendant No. P 6420

Seaward Defence Motor Launches.

SDML 110 **SDML 1112** **SDML 1118**

Displacement :	46 tons (54 tons *full load*)
Dimensions :	72 (o.a.) × 15½ × 5½ feet
Guns :	1—3 pdr., 1—20 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 320 = 12 kts.
Complement :	14

Tank Landing Ship.

MAGAR. *I.N. Official.*

MAGAR (ex-*Avenger*, ex-*LST* (3) 3011)

Displacement :	2,256 tons *light* (4,890 tons *full load*)
Dimensions :	347½ (o.a.) × 55½ × 12½ feet
Guns :	2—40 mm. Bofors AA.
Machinery :	Vertical reciprocating, 4 cylinder. 2 shafts
Speed :	12·75 kts.
Complement :	64

Tank Landing Craft.

LCT 1177 **LCT 1294** **LCT 1310** **LCT 1315** **LCT 1358** **LCT 1360**

Oilers.

CHILKA **SAMBHAR**

Displacement :	1,082 tons
Dimensions :	202 × 30½ × 13 feet
Machinery :	Triple expansion. I.H.P. : 809 = 9 kts.
Oil Capacity :	800 tons

Notes.—Both acquired in 1948. Engined by David Rowan & Co. Two steam dynamos, two steam pumps, ballast pump.

Name	*Builders*	*Launched*
Chika	Blythswood Shipbuilding Co., Scoutstoun	
Sambhar	A. & J. Inglis, Ltd., Glasgow	1942

Ocean Tug.

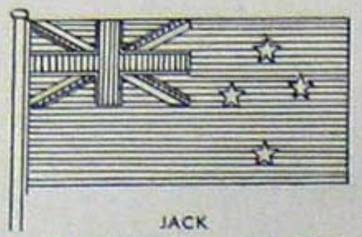
HATHI

Builders :	Taikoo Dock & Eng. Co., Hong Kong
Launched :	1932
Displacement :	668 tons
Dimensions :	147½ × 32½ × 12 feet
Machinery :	Triple expansions
Speed :	13·5 kts.

ROYAL NEW ZEALAND NAVY

Flags.

GOVERNOR-GENERAL.



JACK

Ships of the Royal New Zealand Navy wear the White Ensign, and pendant is flown as in the Royal Navy.

Administration.

Commander-in-Chief: H. E. Lieut.-General Sir Charles Willoughby Moke Norrie, K.C.M.G., C.B., D.S.O., M.C.

Naval Board.

Chairman: The Minister of Defence the Hon. T. L. Macdonald, M.P.
First Naval Member and Chief of Naval Staff: Commodore Sir Charles E. Madden, Bt., R.N.
Second Naval Member: Captain J. E. Slaughter, D.S.O., R.N.
Third Naval Member: Captain (S) M. H. Knott, O.B.E., R.N.
Navy Secretary: Mr. D. A. Wraight.

Royal New Zealand Naval Liaison Officer, London: Commander A. B. Gilfillan, V.R.D., R.N.Z.N.
Royal New Zealand Naval Liaison Officer, Melbourne: Captain L. P. Bourke, O.B.E., D.S.C. & Bar, R.N.Z.N.

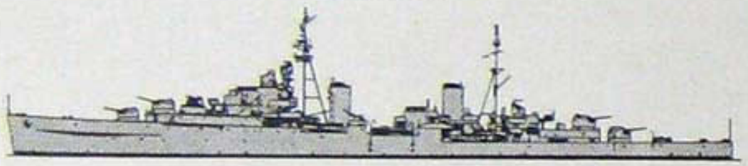
Personnel.

December, 1952: 2,782 officers and ratings.

Uniforms.

Same as in Royal Navy (See page 1.)

Silhouettes.



BELLONA, BLACK PRINCE.

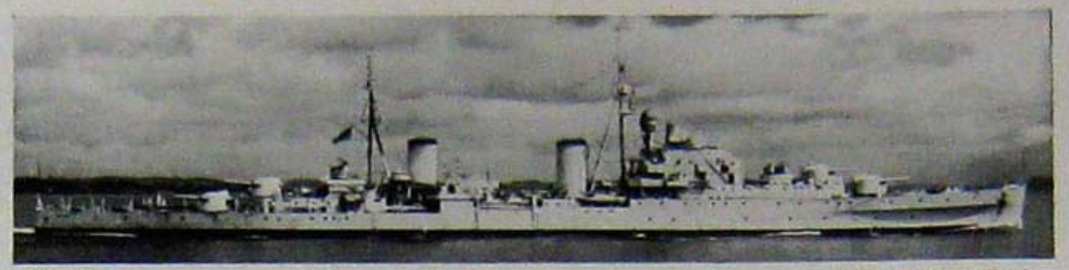
LAKE (*ex-Loch*) *Class.*

Mercantile Marine.

Lloyd's Register appendix, 1953: 165 vessels of 231,707 tons *gross.*

Cruisers.

2 Modified "Dido" Class.



BELLONA. 1953, *R.N.Z.N., Official.*

BLACK PRINCE. 1951, *R.N.Z.N., Official.*

BELLONA

BLACK PRINCE

Displacement:	5,900 tons (7,410 tons *full load*)
Dimensions:	Length: 512 (*o.a.*) feet. Beam: 52 feet. Draught: 15 (*mean*), 18½ (*max.*) feet
Guns:	8—5·25 inch, 4—40 mm., 12—2 pdr. AA., 3—20 mm. AA., 4—3 pdr. (saluting)
Tubes:	6—21 inch (cripled)
Armour:	2" side, 1" turrets
Machinery:	Parsons single reduction geared turbines. 4 shafts. S.H.P.: 62,000 = 32 kts
Boilers:	4 Admiralty 3-drum type
Complement:	535–551 (*peace*)

Notes.—Built under War Estimates. Sister ships of *Diadem* and *Royalist* in Royal Navy. Both these ships are lent by the Admiralty to the New Zealand Government, who pay for their annual maintenance. *Black Prince* recommissioned in January 1953. *Bellona* is being used as a stationary training ship at Aukland. For plan and elevation see Great Britain section, page 24 (silhouette on left of this page).

Name	*Builders and Machinery*	*Laid down*	*Launched*	*Completed*
Bellona	Fairfield S. B. & Eng. Co., Ltd., Glasgow	30 Nov. 1939	29 Sept. 1942	29 Oct. 1943
Black Prince	Harland & Wolff, Ltd., Belfast	2 Nov. 1939	27 Aug. 1942	20 Nov. 1943

A/S Frigates.

6 "Lake" (ex- "Loch") Class.

KANIERE. 1951, R.N.Z.N., *Official.*

HAWEA. 1951, *A. & J. Pavia.*

HAWEA (ex-*Loch Eck*) **PUKAKI** (ex-*Loch Achanalt, ex-Naver*) **TAUPO** (ex-*Loch Shin*)
KANIERE (ex-*Loch Achray*) **ROTOITI** (ex-*Loch Katrine*) **TUTIRA** (ex-*Loch Morlich*)

Displacement:	1,435 tons (2,260 tons *full load*)
Dimensions:	286 (*pp.*), 307½ (*o.a.*) × 38¾ × 12 (*mean*), 14½ (*max.*) feet, deep load
Guns:	1—4 inch, 4—2 pdr. pompoms, 6—20 mm. AA.
A/S Weapons:	2 squids
Machinery:	Vertical reciprocating 4-cylinder triple expansion. 2 shafts. I.H.P.: 5,500 = 19·5 kts.
Boilers:	2 Admiralty 3-drum type
Oil fuel:	724 tons
Complement:	114

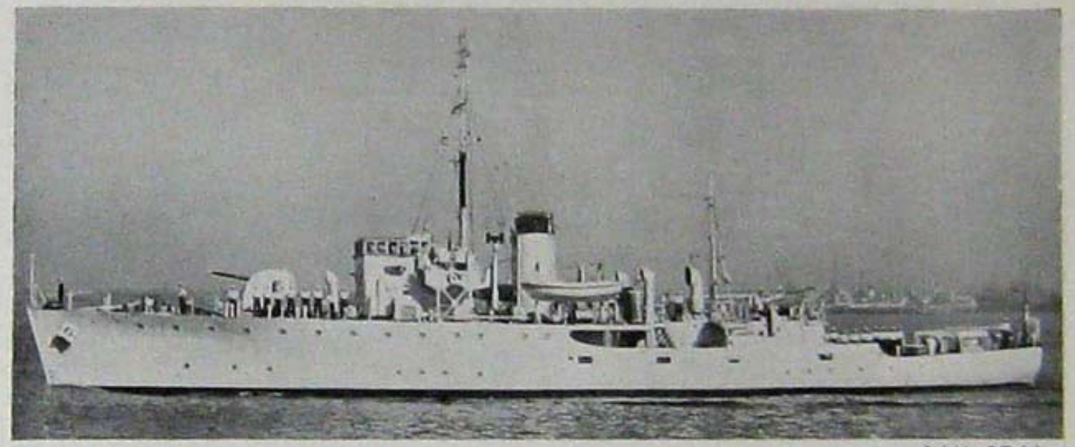
Notes.—Purchased from Royal Navy in 1948, and renamed after New Zealand lakes. The six ships constitute the 11th Frigate Squadron.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 422	*Hawea*	Smith's Dock Co., Ltd., South Bank-on-Tees	25 Oct. 1943	25 Apr. 1944	7 Nov. 1944
F 426	*Kaniere*	Smith's Dock Co., Ltd., South Bank-on-Tees	13 Dec. 1943	7 July, 1944	1 Feb. 1945
F 424	*Pukaki*	Henry Robb, Ltd., Leith	14 Sept. 1943	23 Mar. 1944	11 Aug. 1944
F 625	*Rotoiti*	Henry Robb, Ltd., Leith	31 Dec. 1943	21 Aug. 1944	29 Dec. 1944
F 421	*Taupo*	Swan, Hunter & Wigham Richardson, Ltd., Tyne	6 Sept. 1943	23 Feb. 1944	10 Oct. 1944
F 517	*Tutira*	Swan, Hunter & Wigham Richardson, Ltd., Tyne	15 July 1943	25 Jan. 1944	2 Aug. 1944

Ocean Minesweepers.

4 "Bathurst" Class.

KIAMA. 1953, *R.N.Z.N., Official.*



R.A.N., Official.

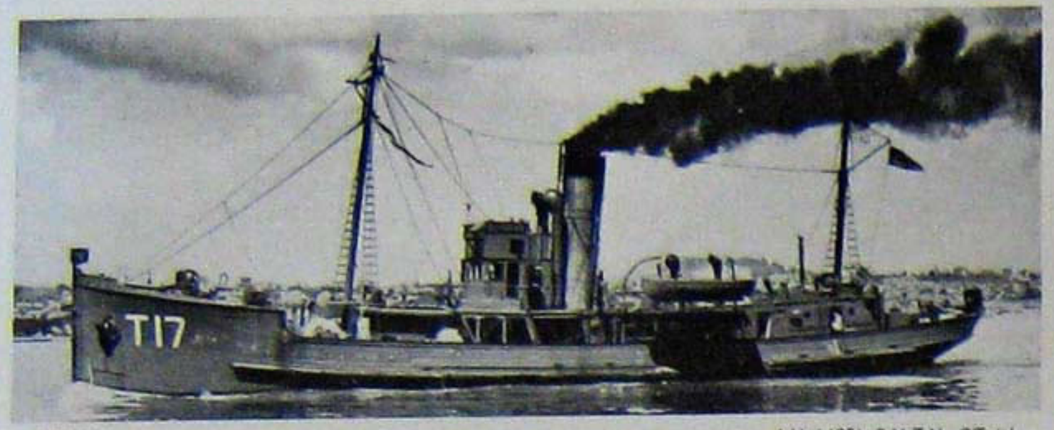
ECHUCA **INVERELL** **KIAMA** **STAWELL**

Displacement :	790 tons *standard* (1,025 tons *full load*)
Dimensions :	186 (*o.a.*), 162 (*pp.*), × 31 × 8½ (*mean*) feet
Guns :	1—4 inch, 1—40 mm. AA., 6 M.G.
Machinery	Triple Expansion 2 shafts. I.H.P. : 1,800 = 15 kts.
Boilers :	2 Admiralty 3-drum small tube type.

Note.—These four vessels were given to New Zealand by Australia in 1952. They are being refitted and modernised in New Zealand The original names are being retained.

Pendant No.	*Name*	*Builders*	*Launched*
M 252	*Echuca*	Williamstown Naval Dockyard, Melbourne	17 Jan. 1943
M 233	*Inverell*	Mort's Dock, Sydney	2 May 1942
M 353	*Kiama*	Evans Dewson, Brisbane	3 July 1943
M 348	*Stawell*	Williamstown Naval Dockyard, Melbourne	3 Apr. 1943

Minesweeping Trawlers.



HINAU. *Added 1951, R.N.Z.N., Official.*

HINAU **RIMU**

Displacement:	625 tons
Dimensions:	126 (o.a.) × 23½ × 14 feet
Guns:	1—12 pdr.
Machinery:	Triple expansion

Notes.—Built in New Zealand. Launched Aug. 28, 1941 and June 1942, respectively. In reserve at Aukland. War loss : *Puriri.*

4 " Isles " Class.

KILLEGRAY *Added 1950, R.N.Z.N.*

INCHKEITH **KILLEGRAY** **SANDA** **SCARBA**

Displacement:	545 tons (770 tons *full load*)
Dimensions:	150 (pp.), 164 (o.a.) × 27½ × 10½ feet (13½ *max.* feet)
Guns:	1—12 pdr., 3—20 mm.
Machinery:	Triple expansion. I.H.P.: 800 = 12 kts.
Boiler:	1 cylindrical

Notes.—All of " Isles " class. Paid off 1946. In Reserve at Auckland.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
P 155	*Inchkeith*	John Lewis & Sons, Ltd., Aberdeen	16 Nov. 1940	10 July 1941	24 Oct. 1941
P 174	*Killegray*	Cook, Welton & Gemmell, Ltd., Beverley	24 Jan. 1941	27 May 1941	7 Nov. 1941
P 160	*Sanda*	Goole S. B. & Repair Co., Ltd.	23 Dec. 1940	28 July 1941	4 Nov. 1941
P 175	*Scarba*	Cook, Welton & Gemmell, Ltd., Beverley	6 Mar. 1941	25 June 1941	25 Nov. 1941

A/S M/S Trawlers (*Corvette type*).

2 " Bird " Class.

KIWI. *1952, R.N.Z.N., Official.*

KIWI **TUI**

Displacement:	600 tons (825 tons *full load*)
Dimensions:	156 × 30 × 14 feet
Guns:	1—4 inch, 1—2 pdr., 4 M.G.
Machinery:	Triple expansion. I.H.P.: 1,000 = 14 kts.
Boiler:	1 cylindrical

Notes.—Both of corvette type. Engined by Plenty & Son. Commissioned as training ships, mainly for reservists.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
P 102	*Kiwi*	Henry Robb, Ltd., Leith	19 Mar. 1940	7 July 1941	28 Oct. 1941
P 33	*Tui*		19 Mar. 1940	26 Aug. 1941	5 Dec. 1941

Auxiliary.

ISA LEI

Note.—This vessel was purchased by the Royal New Zealnad Navy during 1952.

Surveying Vessels.

1 New Construction.

Notes.—Approval has been given to build a surveying vessel in the United Kingdom. Officially stated by Royal New Zealand Navy authorities that final details have not been settled, but she will be similar to H.M.S. Dampier.

1 "River" Class.

LACHLAN. 1951, *R.A.N. Official.*

LACHLAN

Builders: Mort's Dock, Sydney
Launched: 25 Mar. 1944

Displacement: 1,420 tons (2,220 tons *full load*)
Dimensions: 301½ × 36½ × 12 feet
Guns: 2—4 inch, 2—40 mm. AA., 6 M.G.
Machinery: Triple expans on. 2 shafts. I.H.P.: 5,500 = 20 kts.
Boilers: 2 Admiralty 3-drum type
Complement: 140

Notes.—Australian "River" class frigate. Lent by the Royal Australian Navy for hydrographic survey work and oceanographic research Pendant No. F 364. Two surveying motor launches are commissioned to operate with *Lachlan* (see S.D.M.L.s.)

Tenders.

COASTGUARD **ENDEAVOUR** **HIPI** **TAIHOA** **TE ATU**

Note.—The boom defence vessel *Claymore* has been scrapped.

Seaward Defence Motor Launches.

SDML 3562 (ex-Q1190) *Added 1951, R.N.Z.N., Official.*

SDML 3551 (ex-1183) **SDML 3552** (ex-1184) **SDML 3553** (ex-1191) **SDML 3554** (ex-1192) **SDML 3555** ex-1193) **SDML 3556** (ex-1188) **SDML 3561** (ex-1194) **SDML 3562** (ex-1190) **SDML 3563** (ex-1348) **SDML 3564** (ex-1350) **SDML 3566** (ex-1187)

Displacement: 46 tons (54 tons *full load*)
Dimensions: 72 (*o.a.*) × 15½ × 5½ feet
Guns: 1—20 mm. AA., several MG.
Machinery: Diesel. 2 shafts. B.H.P.: 320 = 12 kts.

Notes.—All built in various yards in the United States and Canada and shipped to New Zealand. SDMLs 3556 and 3566 are commissioned as surveying MLs. and operate with *Lachlan*.

Fleet Tug.

TOIA (ex-*St. Boniface*, ex-*St. Fergus*)

Launched: 1918

Displacement: 570 tons
Dimensions: 135½ × 29 × 14½ (*max.*) feet
Machinery: Triple expansion. I.H.P.: 1,250 = 12 kts.
Coal: 240 tons
Complement: 22

Note.—In reserve at Auckland.

Harbour Tugs.

ARATAKI **MANAWANUI**

Note.—75-ft. Diesel tugs.

26/R

ROYAL PAKISTAN NAVY

Flags.

GOVERNOR-GENERAL.

Flags : Ships of R.P.N. fly White Ensign and pendant like H.M. Ships. The Pakistan flag (shown) is worn as a Jack. When entering or leaving harbour R.P.N. ships fly their Jack at the yard. Flag Officers when afloat fly the flags appropriate to their naval rank, corresponding to those of R.N. officers of equivalent rank.

Administration.

Minister for Defence: The Hon. Khawaja Nazimuddin
Commander-in-Chief Royal Pakistan Navy : Rear-Admiral H. M. S. Choudri, M.B.E., R.P.N.
Chief of Naval Staff : Commodore Casper S. B. Swinley, D.S.O., D.S.C.
Senior Officer, R.P.N. Flotilla : Captain R. N. Tymenski, V.M., D.S.C.
Secretary, Ministry of Defence: Lt.-Col. Iskander Mirza, C.I.E., O.B.E.
Joint Secretary, Ministry of Defence : Mr. Hamid Ali, C.S.P.

Naval Adviser and Naval Liaison Officer : Captain A. Khan, R.P.N.

Personnel.

400 officers ; 4,500 ratings (539 officers and 5,558 ratings sanctioned)

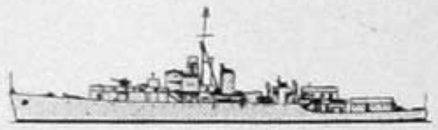
Silhouettes.

*Scale : 150 ft. = 1 inch.

TUGHRIL. *

TARIQ, TIPPU SULTAN*

JHELUM.



SHAMSHER. *

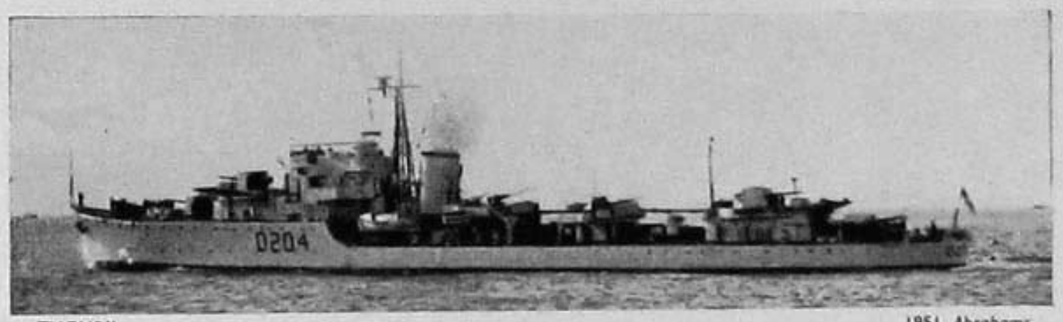
Mercantile Marine.

Lloyd's Register appendix, 1953 : 48 vessels of 142,923 tons.

Destroyers.

TIPPU SULTAN — 1953, *R.P.N., Official.*

TARIQ — 1952, *R.P.N., Official.*



TUGHRIL. — 1951, *Abrahams.*

TARIQ (ex-*Offa*) **TIPPU SULTAN** (ex-*Onslow*, ex-*Pakenham*) **TUGHRIL** (ex-*Onslaught*, ex-*Pathfinder*)

Displacement: 1,540 tons (2,625 tons *full load*)
Dimensions: 338½ (*pp.*), 345 (*o.a.*) × 35 × 9 (*mean*), 15¾ (*max.*) feet
Guns: 4—4·7 inch, 4—40 mm. AA.
Tubes: 8—21 inch
Machinery: 2 Admiralty 3-drum type boilers. Parsons geared turbines. 2 shafts. S.H.P.: 36,000 = 31 kts.

Notes.—Acquired from Great Britain; *Tippu Sultan* handed over Sept. 30, 1949; *Tariq* Nov. 3, 1949; *Tughril* Mar. 6, 1951.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 129	*Tariq*	Fairfield S. B. & Eng. Co., Ltd., Glasgow	15 Jan. 1940	11 Mar. 1941	20 Sept. 1941
D 49	*Tippu Sultan*	John Brown & Co., Ltd., Clydebank	1 July 1940	31 Mar. 1941	8 Oct. 1941
D 204	*Tughril*	Fairfield S. B. & Eng. Co., Ltd., Glasgow	14 Jan. 1941	9 Oct. 1941	19 June 1942

Frigates (*Ex-Sloops*).

2 " Jhelum " Class.

SIND 1952 A. & J. Pavia.

JHELUM. 1951, *Wright & Logan.*

JHELUM (ex-*Narbada*) **SIND** (ex-*Godavari*)

Displacement:	1,340 tons (1,760 tons *full load*)
Dimensions:	266 (*w.l.*), 292½ (*o.a.*) × 37½ × 10½ (mean) feet
Guns :	6—4 inch, 2—40 mm., 2—20 mm. AA., 4—3 pdr. (saluting)
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 3,600 = 18·25 kts.
Boilers:	2, of 3-drum type
Complement:	144

Note.—Sind was refitted in Great Britain by original builders at Southampton, 1949–50, and made a tour of Australian and New Zealand ports, 1951. She has lattice mast. *Jhelum* refitted 1950–51, is fitted as flagship and has tripod mast.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 40	*Jhelum*	John I. Thornycroft & Co., Ltd., Woolston, Southampton	30 Aug. 1941	21 Nov. 1942	29 Apr. 1943
F 52	*Sind*		30 Oct. 1941	21 Jan. 1943	28 June 1943

Frigates.

(Training Ship and Surveying Vessel).

ZULFIQUAR. 1953 A. & J. Pavia.

SHAMSHER. 1951, *courtesy K. F. Caldwell, Esq.*

SHAMSHER (ex-*Nadder*) **ZULFIQUAR** (ex-*Dhanush*, ex-*Deveron*)

Displacement:	1,370 tons (2,100 tons *full load*)
Dimensions:	301½ (*o.a.*) × 36½ × 12 feet
Guns :	1—4 inch, 4—20 mm. AA. (*Shamsher* 1—4 inch, 4—3 pdr. saluting)
Machinery:	Triple expansion. I.H.P.: 5,500 = 20 kts.
Boilers:	2 Admiralty 3-drum type
Complement:	150

Notes.— Former British " River " class frigates. *Shamsher*, which has extra deckhouses, one in " X "position and one on quarter deck, has been converted to training ship for cadets and boys. " Shamsher " means " sword " in Pakistani. *Zulfiquar* now converted into a surveying ship, with additional charthouse aft, has strengthened davits and carries survey motor boats. After 4-inch gun removed from both vessels.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 392	*Shamsher*	Smith's Dock Co., Ltd., South Bank-on-Tees	11 Mar. 1943	15 Sept. 1943	20 Jan. 1944
F 265	*Zulfiquar*		16 Apr. 1942	12 Oct. 1942	2 Mar. 1943

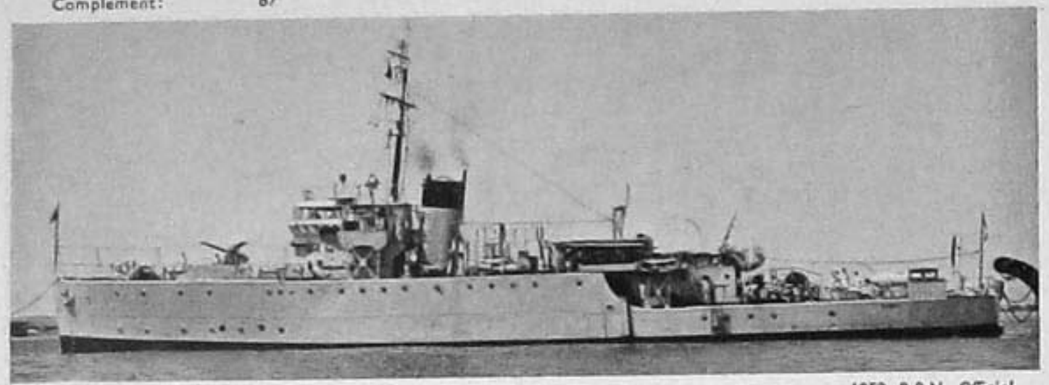
Fleet Minesweepers.
4 " Bangor " Class.

BALUCHISTAN

1952, *R.P.N., Official.*

BALUCHISTAN (ex-*Greenock*) — **CHITTAGONG** (ex-*Kathiawar*, ex-*Hartlepool*)

Displacement:	605 tons (780 tons *full load*)
Dimensions:	174 (*o.a.*) × 28½ × 10½ feet
Guns:	1—12 pdr., 4—20 mm.
Machinery:	Geared turbines. 2 shafts. I.H.P.: 2,000 = 15 kts.
Boilers:	2 Admiralty 3-drum type
Complement:	87



DACCA.

1952, *R.P.N., Official.*

DACCA (ex-*Oudh*) — **PESHAWAR** (ex-*Malwa*)

Displacement	550 tons (711 tons *full load*)
Dimensions:	182 × 28 × 8½ feet
Guns:	1—12 pdr., 4—20 mm. AA.
Machinery:	Triple expansion by Lobnitz. I.H.P.: 2,160 = 15·75 kts.
Boilers:	2 Admiralty 3-drum, small-tube type
Complement:	87

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
M 182	*Baluchistan*	Blyth Dry Docks & S.B. Co., Ltd.	28 July 1941	11 May 1942	20 Oct. 1942
M 155	*Chittagong*		28 Oct. 1941	14 July 1942	23 Dec. 1942
Leader	*Dacca*	Garden Reach		23 Mar. 1942	
M 55	*Peshawar*	Calcutta		1 June 1944	

Motor Minesweeper.

GHAZI (ex-*MMS 131*)

Displacement:	255 tons
Dimensions:	105 (pp.), 119 (*o.a.*) × 23 × 9½ feet
Guns:	2—20 mm. AA., 2 M.G.
Machinery:	Diesel. B.H.P.: 500 = 10 kts.
Complement:	20

2 Trawlers.

BAHAWALPUR (Lahore P 12).

1952, *R.P.N., Official.*

BAHAWALPUR (ex-*Baroda*, ex-*Lucknow*, 22 Oct. 1941) — **LAHORE** (ex-*Rampur*, 19 July 1941)

Displacement:	545 tons (770 tons *full load*)
Dimensions:	164 (*o.a.*) × 27½ × 13½ feet
Guns:	1—12 pdr., 3—20 mm. AA.
Machinery:	Triple expansion. I.H.P.: 850 = 11·5 kts.
Boiler:	1 cylindrical
Coal:	181 tons
Complement:	48

4 Seaward Defence Motor Launches.

SDML 3520.

1952, *R.P.N., Official.*

SDML 3517 (ex-SDML 1261) — **SDML 3518** ex-SDML 1262) — **SDML 3519** (ex-SDML 1263 — **SDML 3520** (ex-SDML 1266)

Displacement:	46 tons (54 tons *full load*)
Dimensions:	72 (*o.a.*) × 15½ × 5½ feet
Guns:	1—3 pdr., 1—20 mm. AA.
Machinery:	Diesel. 2 shafts. B.H.P.: 320 = 12 kts.
Complement:	14

Note.—Re-numbered in 1951.

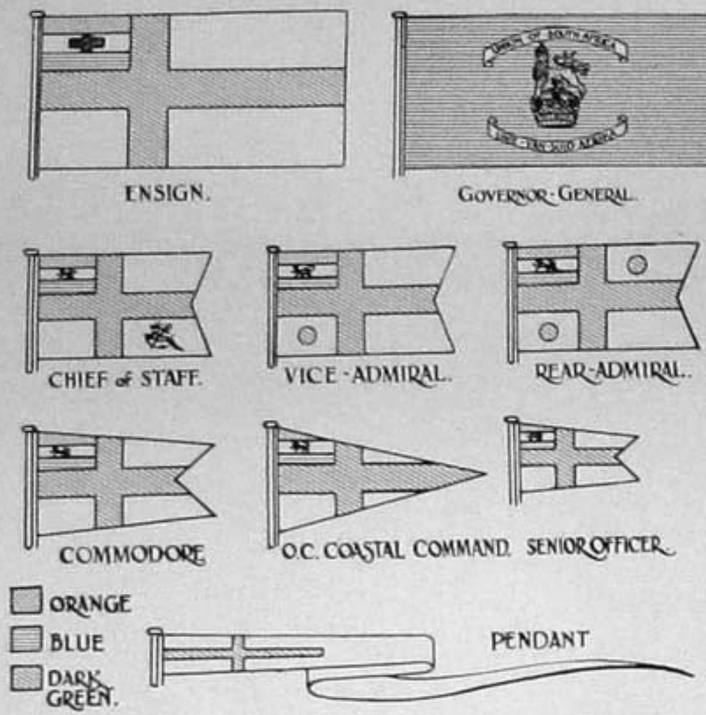
Fleet Replenishment Ship.

ATTOCK (ex-*Empire Taj*, ex-*Barbara*)

Measurement:	3,065 tons *gross*
Dimensions:	313 (*o.a.*) × 43½ × 27½ feet

SOUTH AFRICAN NAVY

Flags.



Administration.

Minister of Defence : Hon. F. C. Erasmus

Naval and Marine Chief of Staff : Commodore H. H. Biermann, O.B.E., S.A.N.

Officer Commanding Coastal Command : Captain H. E. Fougstedt, V.R.D., S.A.N.

Ships.

Ships are referred to as S.A.S. (South African Ship)

Personnel.

Establishment is 131 officers and 1,499 ratings.

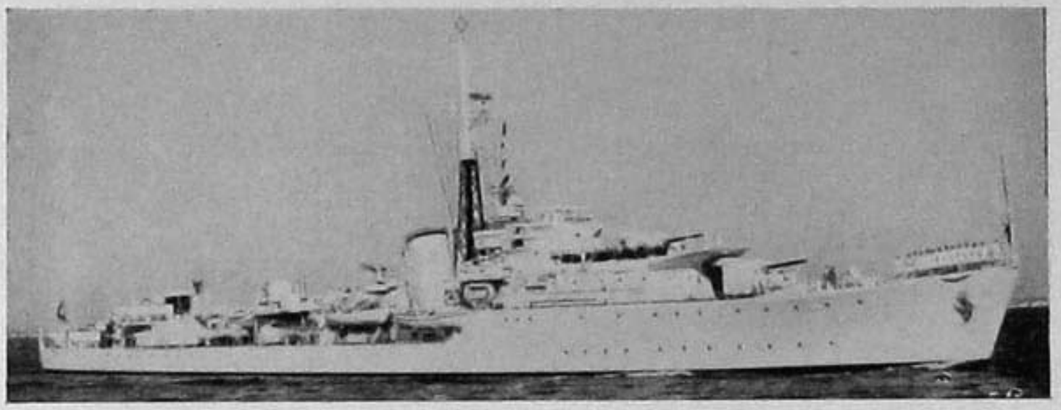
Mercantile Marine.

Lloyd's Register appendix, 1953 ; 153 vessels of 142,411 tons *gross*.

Destroyers.

2 "W" Class.

SIMON VAN DER STEL. 1953, *R. M. Scott.*



1953, *R. M. Scott.*

JAN VAN RIEBEECK (*ex-Wessex, ex-Zenith*) **SIMON VAN DER STEL** (*ex-Whelp*)

Displacement:	1,710 tons (2,505 tons *full load*)
Dimensions:	362½ × 35½ × 10 (*mean*), 16 (*max.*) feet
Guns:	4—4.7 inch, 1—40 mm. Bofors AA., 4—2 pdr. pompom, 8—20 mm. Oerlikon AA.
Tubes:	8—21 inch (quadrupled)
A/S Weapons:	4 D.C.T.
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 40,000 = 36 kts. designed speed (about 33 kts. sea sped)
Boilers:	2 Admiralty 3-drum type
Complement:	186

Notes.—Purchased from Great Britain. *Jan van Riebeeck* transferred to South Africa, March 29, 1950. and *Simon van der Stel* in 1952.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 278	*Jan van Riebeeck*	Fairfield S.B. & Eng. Co., Ltd., Glasgow	20 Oct. 1942	2 Sep. 1943	11 May 1944
D 237	*Simon van der Stel*	R. & W. Hawthorn, Leslie & Co., Ltd., Hebburn	1 May 1942	3 June 1943	25 Apr. 1944

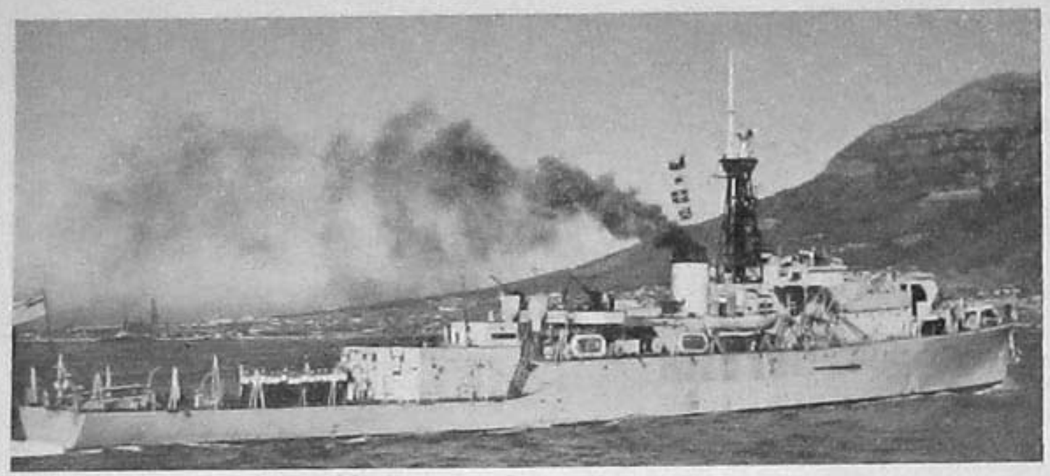
263R

SOUTH AFRICA—Frigates and Ocean Minesweepers

Frigates.

3 " Loch " Class.

NATAL. 1951, *Official.*



TRANSVAAL. 1949, *R. M. Scott.*

GOOD HOPE (ex-*Loch Boisdale*) **NATAL** (ex-*Loch Cree*) **TRANSVAAL** (ex-*Loch Ard*)

Displacement:	1,435 tons (2,260 tons *full load*)
Dimensions:	307 × 38½ × 15 feet
Guns:	1—4 inch, 1 quadruple 2 pdr. pompom, 6—40 mm. AA.
A/S Weapons:	Squid. D.C.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 5,500 = 19·5 kts. (*max.*)
Boilers:	2 Admiralty 3-drum type
Complement:	140

Notes.—*Transvaal* was completed by Lobnitz & Co., Ltd., Renfrew. All three ships were presented to South Africa by Great Britain, in 1944-45.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 432	*Good Hope*	Blyth Dry Docks & S.B. Co., Ltd.	8 Nov. 1943	5 July 1944	1 Dec. 1944
F 10	*Natal*	Swan Hunter & Wigham Richardson, Ltd.	18 Oct. 1943	19 June 1944	8 Mar. 1945
F 602	*Transvaal*	Harland & Wolff, Ltd., Belfast	20 Jan. 1944	2 Aug. 1944	21 May 1945

Ocean Minesweepers.

1952, *R. M. Scott.*

BLOEMFONTEIN. 1950, *R. M. Scott.*

BLOEMFONTEIN (ex-*Rosamund*) **PIETERMARITZBURG** (ex-*Pelorus*)

Displacement:	1,040 and 950 tons (1,330 and 1,250 tons *full load*) respectively
Dimensions:	225 (*pp.*), 235 (*o.a.*) × 35½ × 11½ (*max.*) feet
Guns:	1—4 inch, 8—20 mm. AA.,
A/S Weapons:	4 D.C.T.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 2,160 = 16 kts.
Boilers:	2, of 3-drum type
Complement:	85

Notes.—Purchased by South Africa in 1947. Of " Algerine " class, fastest and most efficient minesweepers in the Royal Navy.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
M 439	*Bloemfontein*	Port Arthur Shipyards	1943	20 Dec. 1944	1945
M 291	*Pietermaritzburg*	Lobnitz & Co., Ltd., Renfrew	8 Oct. 1942	18 June 1943	7 Oct. 1943

Surveying Vessel.

Added 1950, R. M. Scott.

PROTEA (ex-*Rockrose*)

Builders:	Charles Hill & Sons, Ltd., Bristol
Laid down:	28 Oct. 1940
Launched:	26 July 1941
Completed:	4 Nov. 1941
Displacement:	1,020 tons (1,340 tons *full load*)
Dimensions:	190 (pp.), 205 (o.a.) × 33 × 16½ feet
Guns:	1—4 inch, 1—2 pdr., 1—20 mm. Also carries 4 D.C.T.
Machinery:	Triple expansion. I.H.P.: 2,750 = 16 kts.
Boilers:	2 S.E.
Oil fuel:	200 tons
Complement:	100

Notes.—A former corvette of the "Flower" class. Engined by G. Clark. Formerly served in Royal Navy. Purchased 1947.

Controlled Minelayer.

SKILPAD (*Fleur* and *Somerset* behind). 1952, S.A.N., *Official.*

SKILPAD (ex-*Spindrift*, ex-*Polaris*)

Displacement:	926 tons *full load*
Dimensions:	160 × 26 × 26 feet
Machinery:	Compound Uniflow Lentz valve engines

Notes.—Former German trawler. Name was changed from *Spindrift* to *Skilpad* (meaning "Tortoise") in 1951. Pendant No. M447

Boom Defence Vessels.

SOMERSET. 1942, *Official.*

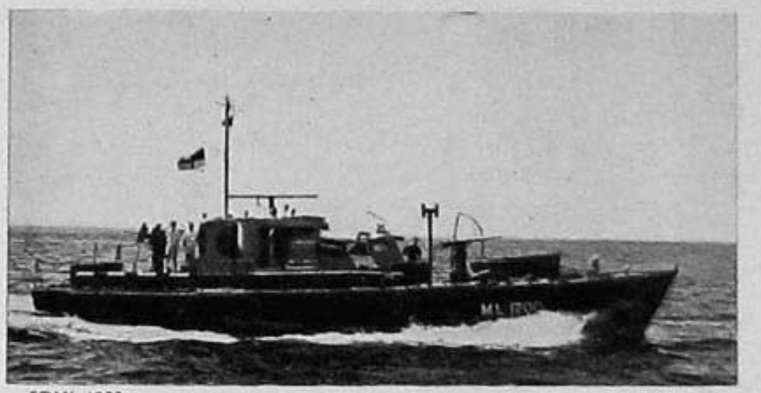
FLEUR (ex-*Barbrake*) **SOMERSET** (ex-*Barcross*

Displacement:	750 tons *standard*, (960 tons *full load*
Dimensions:	173½ (o.a.) × 32½ × 9½ feet
Guns:	1—3 inch AA. (war)
Machinery:	Triple expansion. I.H.P.: 850 = 11·75 kts.
Boilers:	2 S.E.
Complement:	32

Notes.—Engined by Wm. Simons and Swan, Hunter & Wigham Richardson, Ltd., Wallsend-on-Tyne respectively. Transferred from Great Britain. Of same type as "Bar" class in Royal Navy. Stationed at South African Naval Base, Salisbury Island, Durban. Renamed in 1951, *Fleur* after General de la Rey's horse, and *Somerset*, the traditionally accepted name for Dick King's horse.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
P 273	*Fleur*	Wm. Simons & Co., Ltd., Renfrew	18 July 1941	29 June 1942	15 July 1942
P 285	*Somerset*	Blyth Dry Docks & S.B. Co., Ltd.	15 Apr. 1941	21 Oct. 1941	14 Apr. 1942

Seaward Defence Motor Launches.



SDML 1200 1944, *Official.*

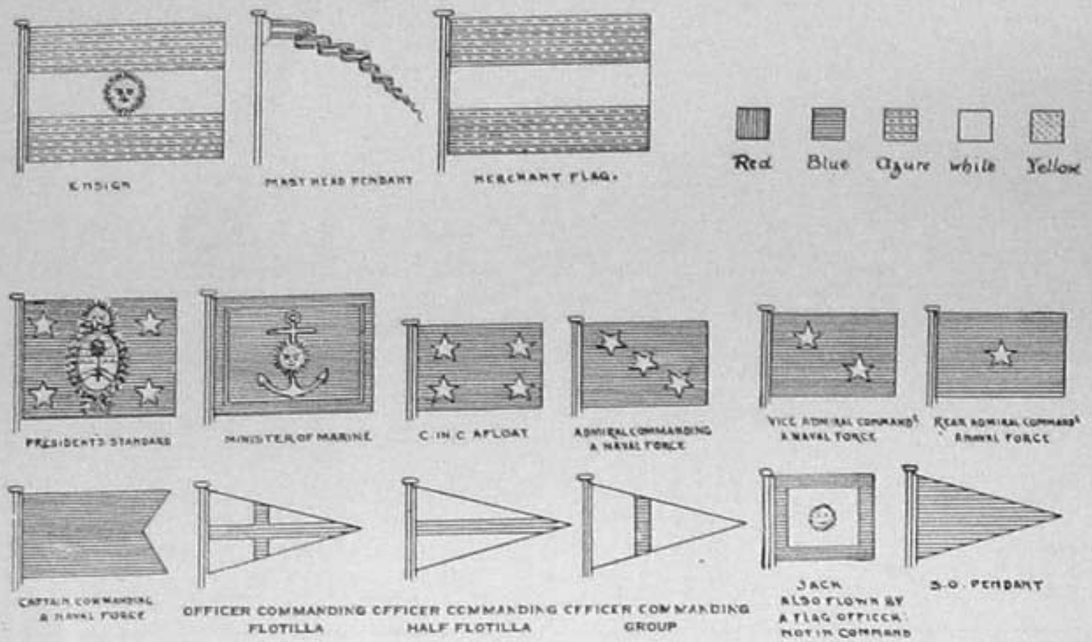
SDML 1197 **SDML 1198** **SDML 1199** **SDML 1200** **SDML 1201** **SDML 1202** **SDML 1203** **SDML 1204** **SDML 1332**

Displacement:	46 tons (54 tons *full load*)
Dimensions:	72 (o.a.) × 15¾ × 5½ feet
Guns:	1—3 pdr., 1—20 mm. AA.
Machinery:	2 Gardner 8-cylinder Diesels. B.H.P.: 130 = 11 kts.

Notes.—All built in South Africa. SDML 1330 and SDML 1331 were striken off in 1953.

ARGENTINA

Flags.



Flag of Chief of Naval Operations is similar to that of C.-in-C. Afloat but with an additional star in middle.

Administration.

Minister of Defence : Vice-Almirante Carlos Macchiavelli.
Minister of Marine : Contraalmirante Anibal O. Olivieri.

Chief of Naval Operations : Vice-Almirante Ramon A. Brunet.
Commander-in-Chief, Sea-going Fleet : Contraalmirante Jorge P. Ibarborde.
Director of Navigation : Contraalmirante Juan B. Basso.
Director General, Administration : Contraalmirante J. C. Cairo.

Chief of Naval Commission and Naval Attaché, London : Captain Bernardo F. Benesch.

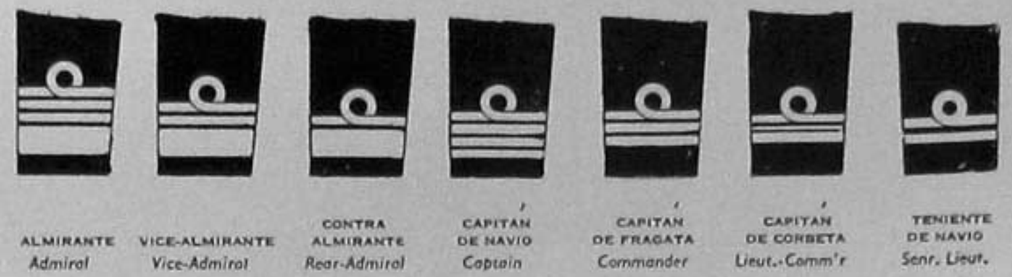
Personnel.

1,500 officers, 20,000 ratings (including 5,000 conscripts).

Ships.

The names of all warships are prefaced by "A.R.A." (Armada de la Republica Argentina).

Uniforms.



Coloured velvet cloth is worn between the stripes as follows :

Engineer Officers :	Azure.
Surgeons :	Red.
Supply Officers :	White.
Judge Advocate :	Green.
Chaplains :	Purple.

Dockyards.

PUERTO BELGRANO (Bahia Blanca). Dry docks : (1) 657 × 84 × 32½ feet ; (2) 683 × 114 × 43 feet. Floating dock : 750 tons lift.

RIO SANTIAGO. Dock: 672 × 114 × 36 feet. Three floating docks: (1) 1,500 tons lift ; (2) 750 tons lift. (3) 300 tons lift.

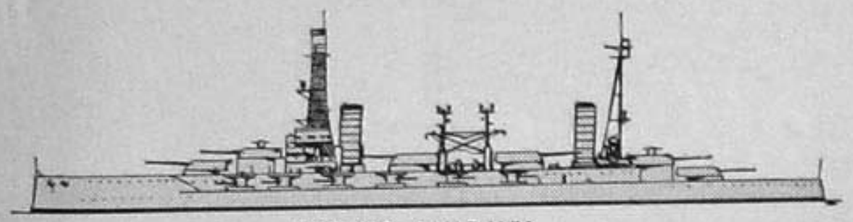
DARSENA NORTE (Buenos Aires). Dry docks : (Eastern) 590½ × 65½ × 25 feet, and (Western) 492 × 65½ × 25 feet.

ZARATE (River Parana).

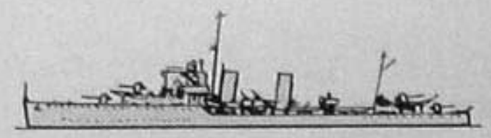
Mercantile Marine.

Lloyd's Register appendix, 1953 : 396 vessels of 1,047,344 tons gross.

Scale : 150 feet = 1 inch

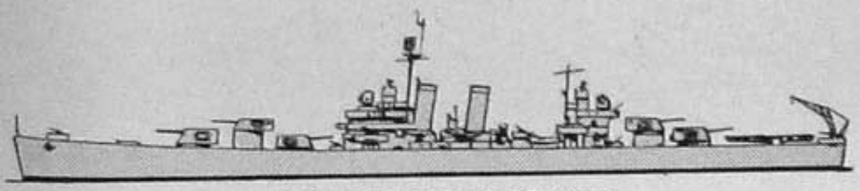


MORENO, RIVADAVIA.

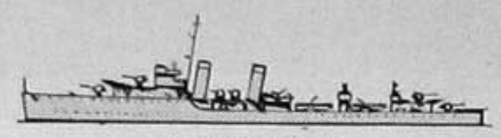


BUENOS AIRES *Class.*

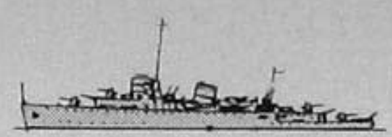
HERCULES.



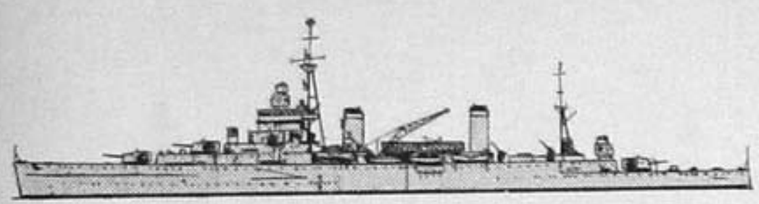
17 DE OCTUBRE, 9 DE JULIO



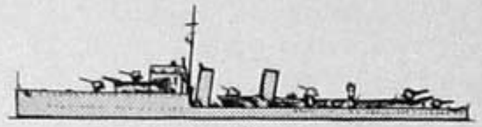
MENDOZA *Class.*



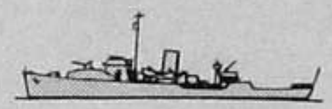
KING, MURATURE.



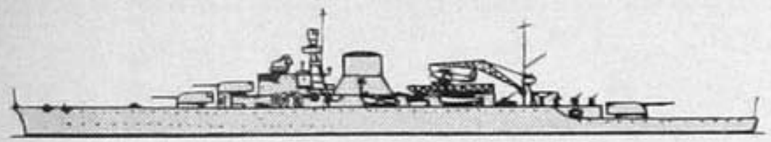
LA ARGENTINA



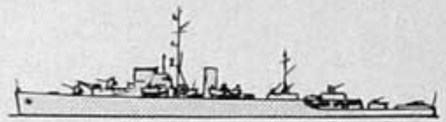
CERVANTES *Class.*



REPUBLICA

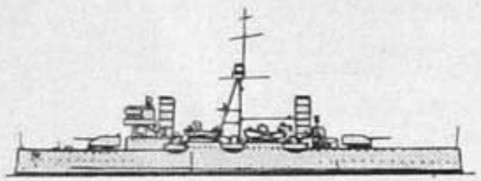


ALMIRANTE BROWN, 25 DE MAYO.



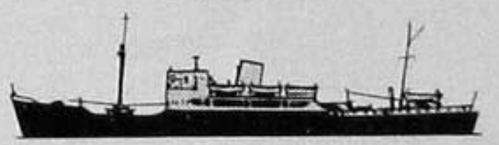
SARANDI, TRINIDAD.

BAHIA AGUIRRE



PUEYRREDON

HERONIA



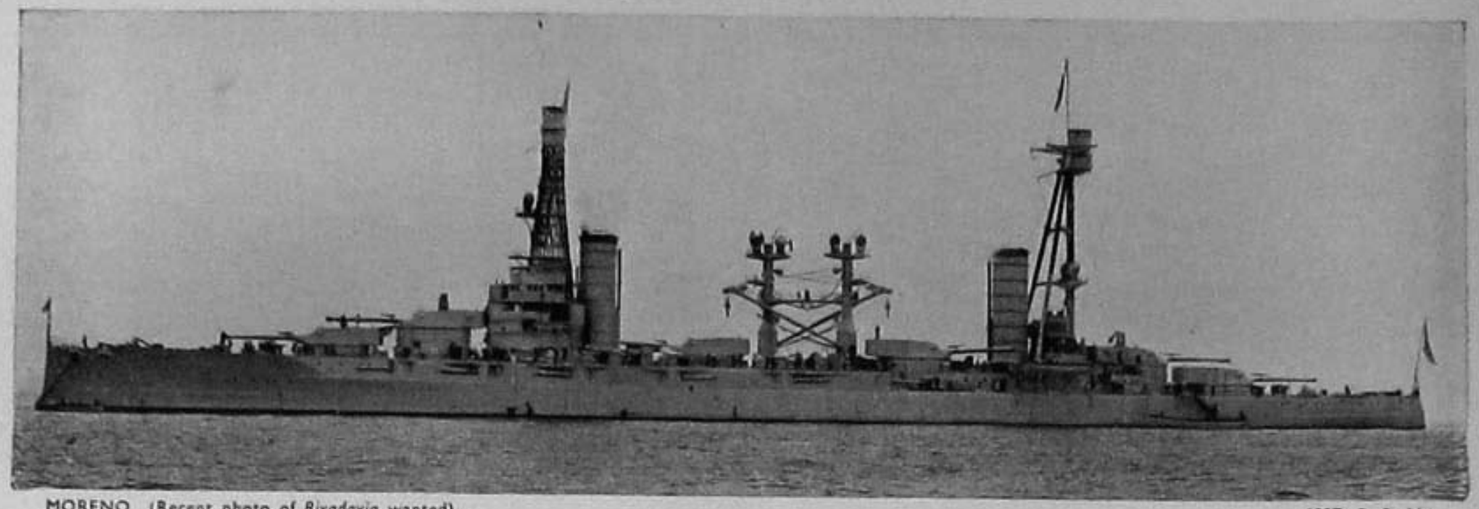
LE MAIRE *Class.*

ARGENTINA—Battleships

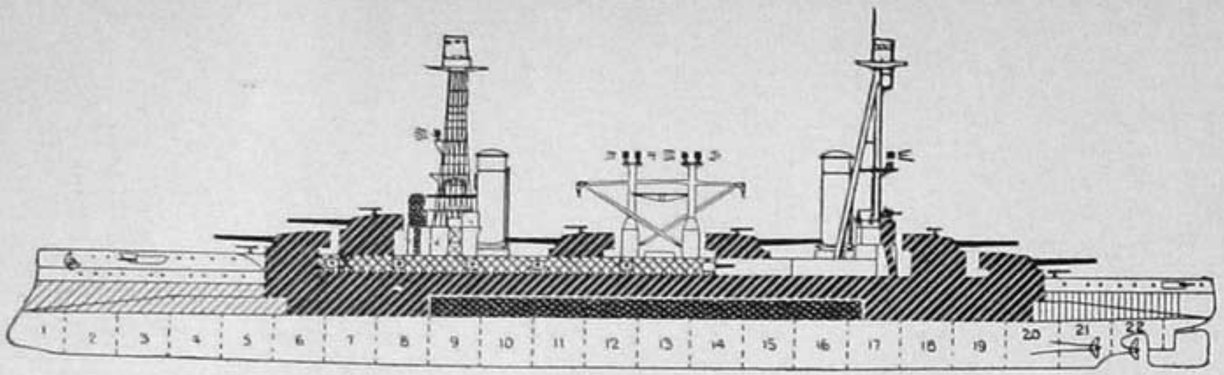
Battleships.

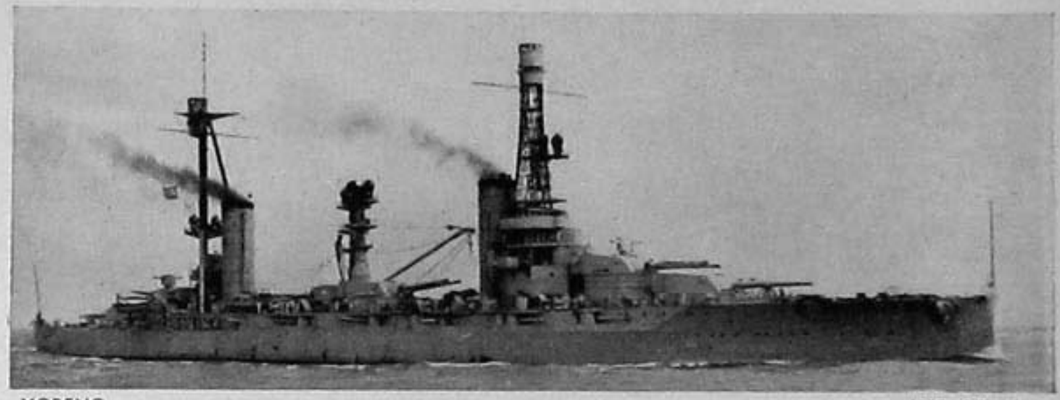
2 " Moreno " Class.

	MORENO	RIVADAVIA
Displacement :	27,720 tons *standard* (31,000 tons *full load*)	
Dimensions :	Length : 577½ (*w.l.*), 585 (*o.a.*) feet. Beam : 97 feet. Draught : 28 feet (*max.*)	
Guns (Bethlehem) :	12—12 inch, 50 cal., 12—6 inch, 50 cal., 4—3 inch AA., 4—40 mm. AA., 2 M.G.	
Tubes :	2—21 inch *submerged*) (broadside)	
Armour (Krupp) :	11"-8" Belt (amidships), 5" Belt (bow) N.C., 4" Belt (stern) N.C. 3" Deck (slopes), 9"-8" Side above belt, 12"-9" Big gun turrets, 6" Secondary battery (N.C.), 12" C.T. (forward), 9" C.T. (aft.) (*See armour notes.*)	
Machinery :	Curtis geared turbines. 3 shafts. S.H.P. : 45,000 = 22.5 kts.	
Boilers :	18 Babcock (converted to oil burning, 1924-25)	
Oil fuel :	3,600 tons	
Nominal radius :	3,930 miles at full speed, 8,500 miles at 10 kts.	
Complement :	1,215	

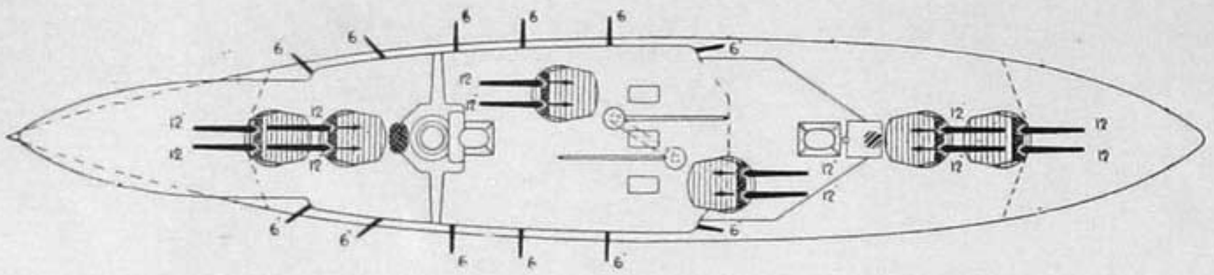


MORENO (Recent photo of *Rivadavia* wanted). 1937, *R. Perkins.*





MORENO. 1937, *Official.*



Note to Plan.—3 pdr. guns shown on top of B and X turrets since replaced by rangefinders.

General Notes.—Built under 1908 Programme. Large refits in U.S.A., 1924-25.

Gunnery Notes.—Heights of barbettes over normal draught w.l. : No. 1, 29½ feet ; No. 2, 37½ feet ; Nos. 3 and 4 (echelon), and No. 5 29 feet ; No. 6, 20 feet ; 6 inch guns, 19½ feet above w.l. Arcs of fire : end barbettes, Nos. 1 and 6, 270° ; Nos. 2 and 5 (super-firing), 30° ; Nos. 3 and 4 (echelon) 180° own beam and 100° far beam. Director controls (U.S.) type installed during 1924-25 refits. Rates of fire are reported to be : 12 inch, 2 rounds a minute ; 6 inch, 8 ; 3 inch, 12.

Armour Notes.—Total weight of armour is 7,600 tons. Main belt is 8 feet deep, 4½ feet above water-line and 3½ feet below same at normal draught. It is 240 feet long, but 11" section is only 2 feet deep from top edge of belt, and then tapers to 5" on lower (under-water) edge. Belt under end barbettes is 10" tapering to 5" as main belt. Upper belt 400 feet long, 9" lower edge, 8" top edge, 6" battery above this. Funnel bases, 1½" nickel steel for 15 feet above deck. Protective decks, 1½" upper, 3" lower. Two Director stations behind upper belt at bases of C.T. communication tubes. Barbettes : bases are 9" where exposed. Shields to these : 12" port-plate, 9" sides, 11" back, 3" roof.

Anti-Torpedo Defence.—3" longitudinal wing bulkheads in way of machinery and magazine spaces. ¾" nickel steel flats under magazines, boilers, and engine rooms. Total weight, 690 tons (included in 7,600 tons total weight of armour given above). Searchlights are 38-inch.

Engineering Notes.—On original acceptance trials developed 39,750 S.H.P. and speed of 22.5 kts.

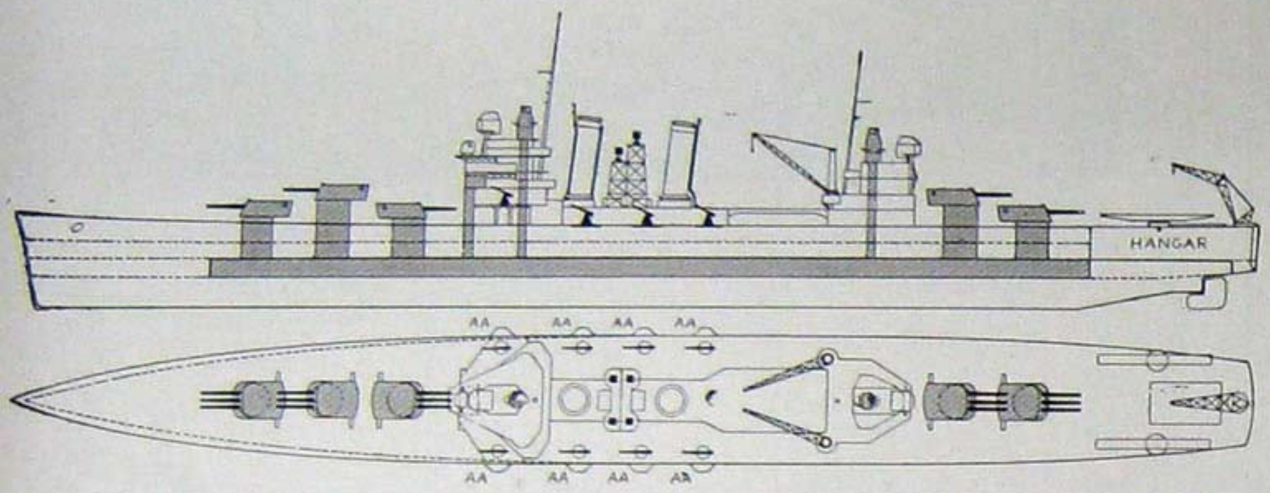
Electrical Engineering Notes.—Electric installation at 220 volts.

Name	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*
Rivadavia	Fore River Co.	Fore River Co.	May, 1910	26 Aug., 1911	Dec., 1914
Moreno	N.Y. S.B. Cpn.	Fore River Co.	July, 1910	23 Sept. 1911	Mar., 1915

2 " 17 de Octubre " Class.

17 DE OCTUBRE *(ex-Phoenix)* **9 DE JULIO** *(ex-Boise)*

Displacement :	10,000 tons *standard*, 12,500 tons *full load*
Dimensions :	Length : 608½ (*o.a.*) feet. Beam : 69 feet. Draught : 24 feet (*max.*)
Guns :	15—6 inch, 47 cal. ; 8—5 inch, 25 cal. ; 28—40 mm. AA. ; 24—20 mm. AA.
Aircraft :	4 (normal capacity), could accommodate 6.
Armour :	4"-1¼" belt, 3" + 2" decks, 5"-3" turrets, 8" C.T.
Machinery :	Westinghouse geared turbines. 4 shafts. S.H.P. : 100,000 = 32.5 kts.
Boilers :	8 Babcock & Wilcox Express type
Oil fuel :	2,100 tons
Radius :	14,500 miles at 15 kts.
Complement :	975



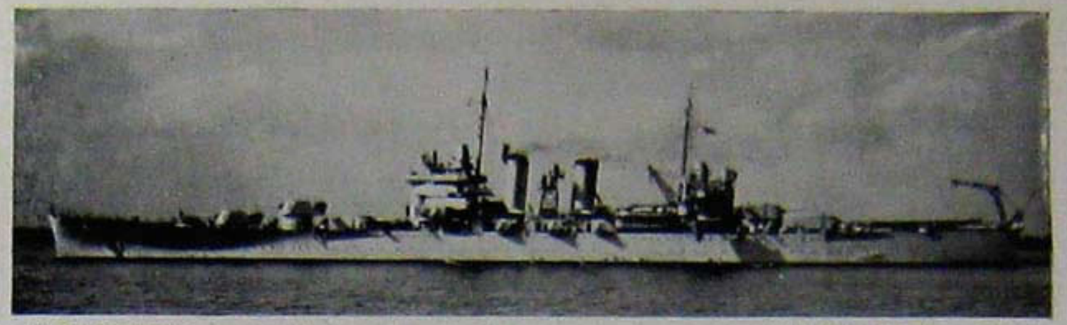
Note to Plan.—Superstructure since reduced, bulges added, and beam increased.

General Notes—Formerly CL 46 and CL 47, respectively, of the U.S. " Brooklyn " Class. Purchased from the United States in 1951 at a cost of $7,800,000, representing 10 per cent. of their original cost ($37,000,000) plus the expense of reconditioning them. Both transferred to Argentine Navy 12 April, 1951. *17 de Octubre* commissioned under her new name at Philadelphia, 17 Oct. 1951 *9 de Julio* commissioned into the Argentine Navy at Philadelphia, 11 March, 1952.

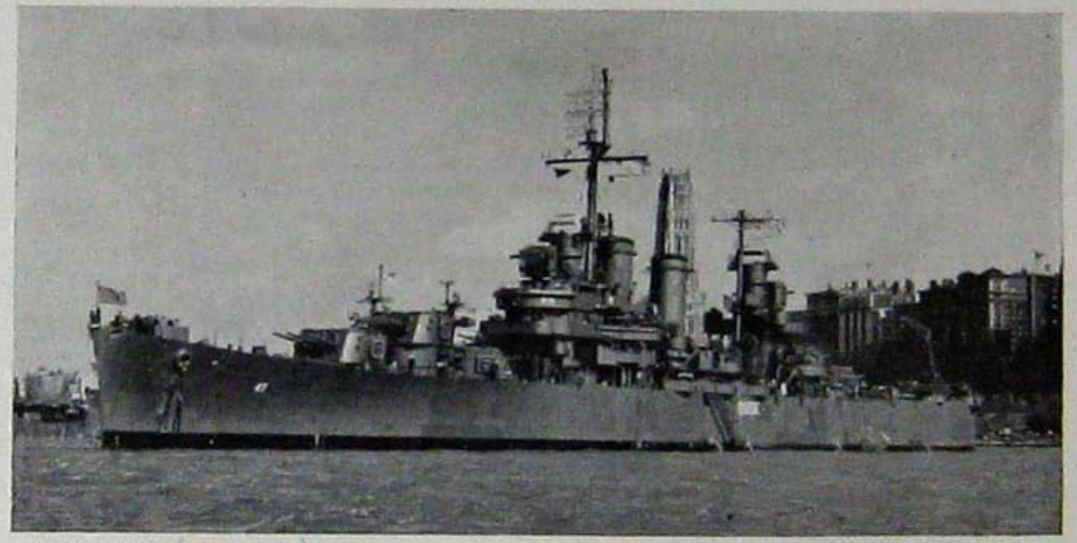
Hangar Notes.—The hangar in the hull right aft could accommodate 6 aircraft if necessary together with engine spares and duplicate parts, though 4 aircraft has been the normal complement. The incorporation of this hangar resulted in a very wide and nearly flat counter and high freeboard aft and also gave the after guns higher command. Above the hangar two catapults were mounted as far outboard as possible, and a revolving crane was placed at the stern extremity overhanging the aircraft hatch.

Historical Notes.—*9 de Julio* refers to 9 July, 1816, when the Argentine provinces signed the Declaration of Independence, as well as to 9 July, 1947, when President Peron declared the economic independence. *17 de Octubre* refers to 17 October 1945 when the counter revolution against President Peron was suppressed, a date since instituted as a holiday known as the Day of Loyalty.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
17 de Octubre	New York S.B. Co., Camden.	15 Apr. 1935	12 Mar. 1938	18 Mar. 1939
9 de Julio	Newport News S.B. Co.	1 Apr. 1935	3 Dec. 1936	1 Feb. 1939



17 DE OCTUBRE. *Added 1951, U.S. Navy, Official.*



9 DE JULIO. *1951, " Our Navy " Photo.*

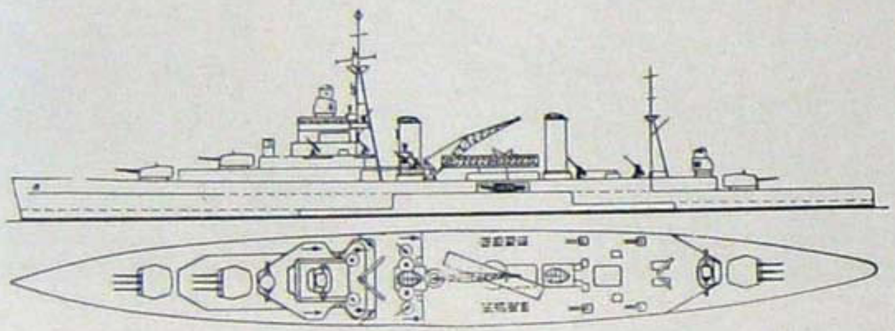
Training Cruiser (*Buque Escuela*).

1951, Wright & Logan.

LA ARGENTINA

Builders :	Vickers-Armstrongs Ltd., Barrow-in-Furness
Laid down :	Jan., 1936.
Launched :	16 Mar., 1937
Completed :	31 Jan., 1939

Displacement :	6,000 tons *standard* (7,500 tons *full load*)
Dimensions :	Length : 510 (*pp.*), 541½ (*o.a.*) feet. Beam : 56½ feet. Draught : 16½ feet (*max.*)
Guns:	9—6 inch, 14—40 mm. AA.
Tubes :	6—21 inch (tripled)
Aircraft :	2 Seagull Amphibians with 1 catapult
Armour :	2" Deck, 2" Gunhouses, 3" side, 3" C.T.
Machinery :	Parsons geared turbines. 3 shafts. S.H.P. : 54,000 = 30 kts.
Boilers :	4 Yarrow, working pressure 300 lb.
Oil fuel :	1,500 tons
Complement :	633 + 131 cadets

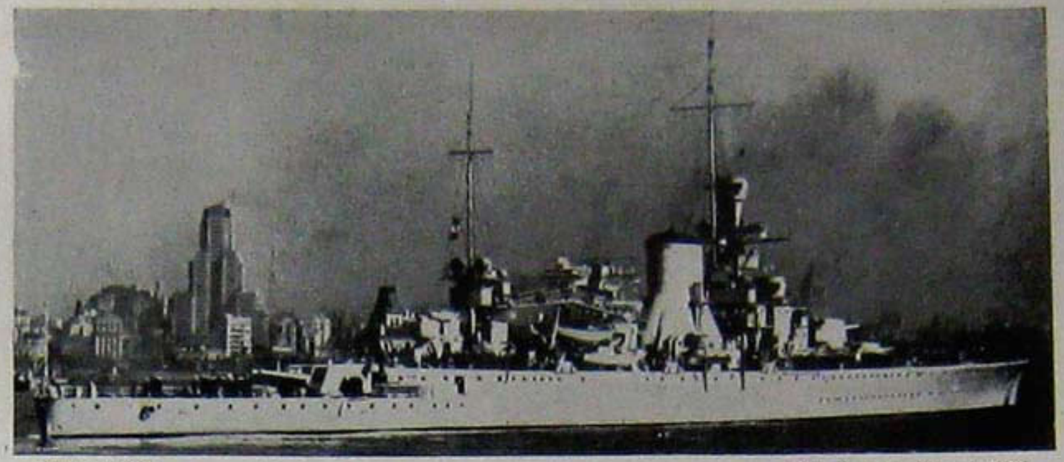


Note to Plan.—Scale : 128 feet = 1 inch.

General Notes—Specially designed as Training Cruiser to replace the old training ship *Presidente Sarmiento*, and named after the Republic. Cost 6,000,000 gold pesos (about £1,750,000).

Gunnery Notes.—Original 4 inch guns were removed in 1950 and 40 mm. guns added.

2 " Almirante Brown " Class.

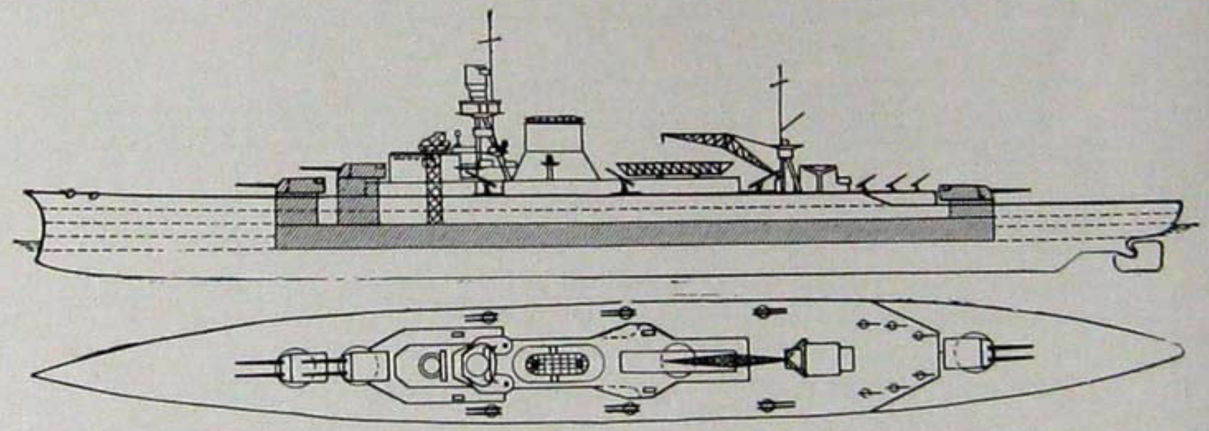


25 DE MAYO.

1946, *Argentine Navy, Official.*

ALMIRANTE BROWN — 25 DE MAYO

Displacement :	6,800 tons *standard* (8,600 tons *full load*)
Dimensions :	Length : 533½ (*w.l.*), 545½ (*o.a.*) feet. Beam : 58 feet. Draught : 16½ feet
Guns :	6—7·5 inch, 52 cal., 12—3·9 inch, 47 cal. AA., 6—40 mm. AA.
Tubes :	6—21 inch *above water* (in triple mountings)
Aircraft :	2 Grumman. Catapult : 1
Armour :	1" deck, 2" gunhouses, 2½" C.T., 2½" side
Machinery:	Parsons geared turbines. 2 shafts. S.H.P. : 85,000 = 32 kts.
Boilers :	6 Yarrow
Oil fuel :	1,800 tons
Complement :	600

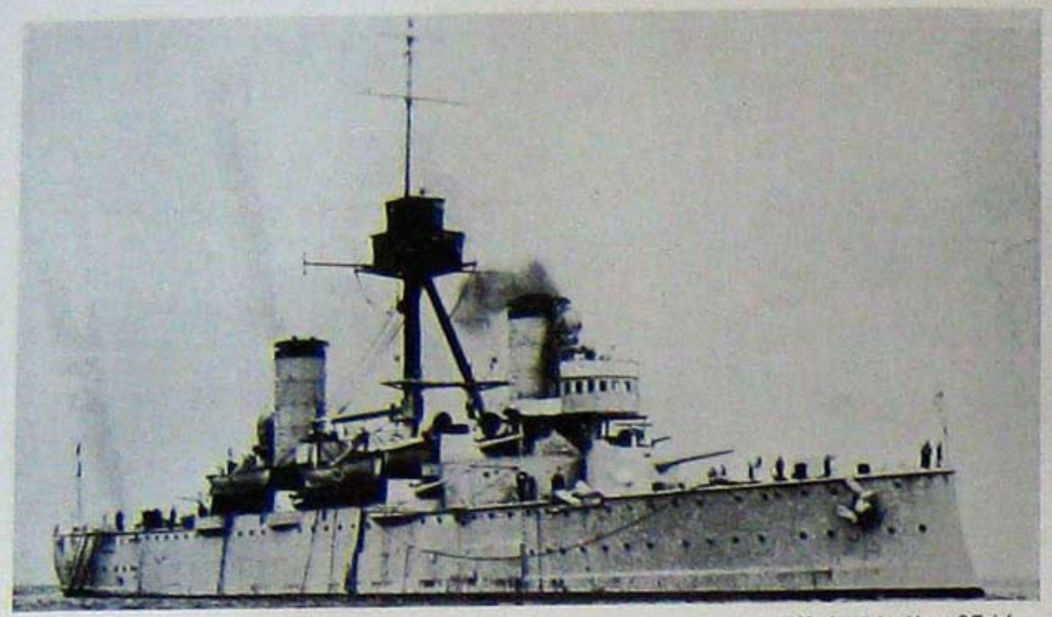


General Notes.—Cost £1,225,000 each. It is understood that these ships have proved a decided disappointment in service, too much evidently having been attempted on the displacement.

Historical Notes.—Admiral William Brown, an Irishman by birth, was in command of the Argentine fleet in the War of Independence, and in the conflict with Brazil, 1826-28. Veinticinco de Mayo (May 25) was the date on which the Argentine Confederation revolted against Spain in 1810.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Almirante Brown	Odero, Sestri Ponente	1927	28 Sep. 1929	Sep. 1931
25 de Mayo	Orlando, Leghorn	1927	11 Aug. 1929	Sep. 1931

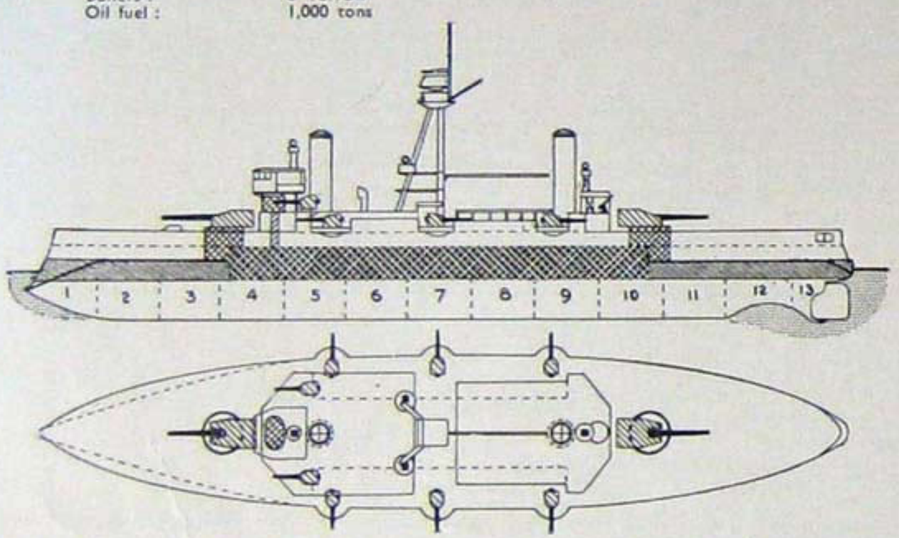
Coast Defence Ship (*Acorazado-Guardacosta*).



1952, *Argentine Navy, Official.*

PUEYRREDON (*ex-Giuseppe Garibaldi*)

Builders :	Ansaldo, Sestri Ponente
Launched :	25 Sept., 1897
Displacement :	6,100 tons *standard*
Dimensions :	Length : 328 feet. Beam : 59¾ feet. Draught : 23½ eet (*mean*)
Guns :	2—10 inch, 8—6 inch, 4—6 pdr., 2—37 mm. AA.
Armour (Terni) :	6"-3" Belt, 1½" 2" Deck, 6" Battery, Turrets, Barbettes, and C.T.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 13,000 = 20 kts.
Boilers :	8 Yarrow
Oil fuel :	1,000 tons



Notes.—This ship was converted to oil fuel and had main deck battery removed, tripod mast fitted and Director firing installed. Refitted at Puerto Belgrano ; now employed as sea-going training ship for naval cadets.

Destroyers (Rated as *Torpederos*).

6 " Buenos Aires " Class.

SAN JUAN. 1953. *Argentine Navy, Official.*

SANTA CRUZ. 1952, *Argentine Navy, Official.*

BUENOS AIRES
ENTRE RIOS
MISIONES
SANTA CRUZ
SAN JUAN
SAN LUIS

Displacement	1,375 tons *standard*
Dimensions :	312 (*pp.*), 320 (*w.l.*), 323 (*o.a.*), × 33 × 8½ (*mean*) feet
Guns :	4—4·7 inch, 8—13 mm. AA.
Tubes :	8—21 inch (quadrupled)
Machinery :	Parsons geared turbines, 2 shafts. S.H.P. : 34,000 = 35 kts.
Boilers :	3, of 3-drum type
Oil fuel :	450 tons
Complement :	130

Notes.—All laid down 1936 and completed March-Oct. 1938. Cost approached £400,000 each. *Corrientes*, of this class, was lost by collision with the *Almirante Brown* during exercises on October 3, 1941. Names are those of provinces or territories of the Argentine Republic. Classification of these ships was changed from *Exploradores* to *Torpederos* in 1952.

Pendant Nos.	*Name*	*Builders*	*Launched*
T 6	*Buenos Aires*	Vickers-Armstrongs, (Barrow)	21 Sep., 1937
T 7	*Entre Rios*		21 Sep., 1937
T 11	*Misiones*	Cammell Laird	23 Sep., 1937
T 9	*San Juan*	Clydebank	24 Jun., 1937
T 10	*San Luis*	Clydebank	24 Aug., 1937
T 12	*Santa Cruz*	Cammell Laird	3 Nov. 1937

Destroyers (Rated as *Torpederos*).

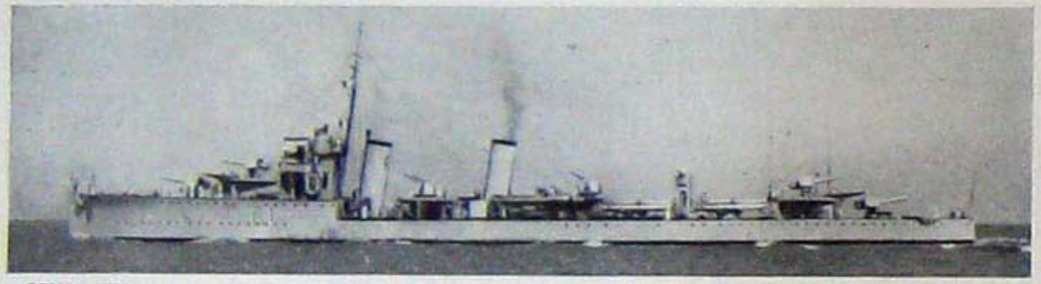
TUCUMÁN. 1952, *Argentine Navy, Official.*

MENDOZA **LA RIOJA** **TUCUMÁN**

Displacement :	1,570 tons *standard* (2,300 tons *full load*)
Dimensions :	332½ (*w.l.*), 335 (*o.a.*) × 31½ × 12½ feet
Guns :	4—4·7 inch, Vickers-Armstrongs ; 6—40 mm. AA. Bofors ; 4—40 mm. AA., 4 M.G.
Tubes :	6—21 inch, in triple deck mountings
Machinery :	2 sets Parsons single reduction geared turbines. 2 shafts. H.P. : 42,000 = 36 kts.
Boilers :	4, of 3-drum type, 250 lb. working pressure
Oil fuel :	540 tons
Radius of action :	4,500 miles at 14 kts.
Complement :	160

Notes.—All laid down in June, 1927, for completion in June, 1929. Named after Argentine provinces. Attained speeds of 39·4 knots on trials. Classification of these ships was changed from *Exploradores* to *Torpederos* in 1952.

Pendant Nos.	*Name*	*Builders*	*Launched*
T 3	*Mendoza*	J. Samue White & Co., Ltd., Cowes	18 Jul., 1928
T 4	*La Rioja*		26 Jan., 1929
T 5	*Tucumán*		16 Oct., 1928



CERVANTES. 1952, *Argentine Navy, Official.*

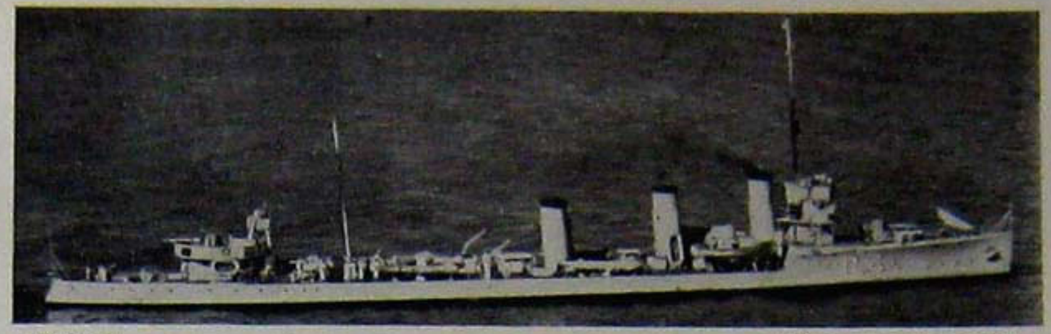
CERVANTES (ex-*Churruca*) **GARAY** (ex-*Alcalá Galiano*)

Displacement :	1,522 tons *standard* (2,087 tons *full load*)
Dimensions :	320 × 31¾ × 10½ feet
Guns :	4—4·7 inch, 1—3 inch AA., 4—40 mm. AA., 4 M.G.
Tubes :	6—21 inch, in triple deck mountings. 2 D.C. carried.
Machinery:	2 sets Parsons geared turbines. 2 shafts. S.H.P. : 42,000 = 33 kts. (38 kts. on trials)
Boilers :	4, of 3-drum type
Oil fuel :	540 tons
Radius of action :	4,500 miles at 14 kts.
Complement :	175

Notes.—Purchased from Spanish Government in 1927. *Cervantes* is named after the author of "Don Quixote" ; *Garay* (formerly known as *Juan de Garay*) after the Governor of Paraguay who re-founded Buenos Aires in 1580. Classification of these ships was changed from *Exploradores* to *Torpederos* in 1952.

Pendant Nos.	*Name*	*Builders*	*Launched*
T 1	*Cervantes*	Cadiz	26 June., 1925
T 2	*Garay*	Cartagena	3 Nov., 1925

Destroyers (Rated as *Torpederos*).



LA PLATA. 1952, *Argentine Navy, Official.*

CÓRDOBA **LA PLATA**

Displacement :	1,000 tons
Dimensions :	295 × 29½ × 7½ feet
Guns :	3—4 inch (Beth.), 2—37 mm. AA.
Tubes :	4—21 inch. 1 D.C.T.
Machinery	Curtis (A.E.G.) turbines. Designed S.H.P. 28,000 = 26.5 kts
Boilers :	5 Schulz-Thornycroft, altered to burn oil
Oil fuel :	200 tons
Endurance :	2,700 miles at 15 kts., 715 miles at full speed
Complement:	99

Pendant Nos.	*Name*	*Builders*	*Launched*
T 15	*Cordoba*	Schichau	Nov., 1910
T 16	*La Plata*		Jan., 1910

CATAMARCA **JUJUY**

Displacement :	997 tons
Dimensions :	288½ × 28 × 7½ feet
Guns :	3—4 inch (Beth.), 2—37 mm. AA.
Tubes :	4—21 inch. 1. D.C.T.
Machinery:	Curtis (A.E.G.) turbines. Designed S.H.P. : 28,000 = 27.2 kts.
Oil fuel :	220 tons
Boilers :	Schulz-Thornycroft, altered to burn oil
Endurance :	3,000 miles at 15 kts., 800 miles at full speed
Complement	99

Notes.—Named after Argentine provinces, except *La Plata*, which takes her name from the city. All four have been relegated to harbour service. Classification of these ships was changed from *Destructores* to *Torpederos* in 1952.

Appearance Notes.—*Catamarca* and *Jujuy* are similar to *Cordoba* and *La Plata* (see photo).

Pendant Nos.	*Name*	*Builders*	*Launched*
T 13	*Catamarca*	Germania	Jan., 1911
T 14	*Jujuy*		Mar., 1911

Frigates.

2 Improved "King" Class.

AZOPARDO **PIEDRABUENA**

Displacement	1,200 tons
Dimensions:	272 × 30 × 9 feet

Notes.—Under construction. Laid down at Rio Santiago. When completed these two vessels, together with *King* and *Murature*, will form the Second Frigate Division.

Historical Note.—*Azopardo* is named after Argentine naval hero.

Frigates—*continued.*

2 "King" Class.

KING. 1952, *Argentine Navy, Official.*

KING **MURATURE**

Displacement :	1,000 tons *standard*
Dimensions :	252½ × 29 × 8½ feet
Guns :	4—4·1 inch, 2—20 mm.
Machinery :	2 Werkspoor 4-stroke Diesels. 2 shafts. B.H.P. 2,500 = 16 kts.

Historical Notes.—Named after Captain John King, an Irish follower of Admiral Brown, who distinguished himself in the war with Brazil, 1826-28 ; and Captain Murature, who performed conspicuous service against the Paraguayans at the Battle of Cuevas on August 6, 1865.

Pendant No.	*Name*	*Built*	*Laid down*	*Launched*	*Completed*
P 21	*King*	Rio Santiago	1938	1943	28 July, 1946
P 20	*Murature*	Rio Santiago	1939	July 1945	18 Nov., 1946

3 "Heroina" Class.

HEROINA. 1952, *Argentina Navy, Official.*

HEROINA (ex-U.S.S. *Reading*) **SARANDI** (ex-U.S.S. *Uniontown, ex-Chattanooga*) **TRINIDAD** (ex-H.M.S. *Caicos, ex-Hannam*

Displacement :	1,400 tons (2,100 tons *full load*)
Dimensions :	285 (*w.l.*), 301 (*o.a.*) × 37½ × 13¾ feet
Guns :	3—4.1 inch (*Heroina* 2), 2 to 4—47 mm. AA., 6 D.C.T.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 19 kts.
Boilers :	2, of 3-drum type

Notes.—Former United States "Tacoma" Class. These ships bear the names of frigates which saw prominent action during the War of Independence. All welded. *Sarandi* is fitted as flagship. *Heroina* has a special deck superstructure aft, housing a meteorological laboratory. *Trinidad* was formerly known as *Santisima Trinidad*.

Pendant Nos.	*Name*	*Builders*	*Launched*
P 32	*Heroina*	Leatham Smith, Superior	28 Aug., 1943
P 33	*Sarandi*	Leatham Smith, Superior	7 Aug., 1943
P 34	*Trinidad*	Walsh-Kaiser, Providence	6 Sep., 1943

Frigates—*continued.*

REPÚBLICA (ex-*Smilax*)

Builders :	Collingwood Shipyards
Launched :	24 Dec., 1942
Displacement :	995 tons (1,350 tons *full load*)
Dimensions :	208 × 33½ × 16½ feet
Guns :	1—4.1 inch AA., several smaller
Machinery :	Triple expansion. 1 shaft. I.H.P. : 2,750 = 17 kts. (*max.*) Oil fuel

Notes.—Former British modified "Flower" class corvette. Bears the name of a corvette which distinguished herself in the War of Independence. Pendant No. P 35.

1944, *U.S. Navy, Official.*

HERCULES (ex-U.S.S. *Asheville*, ex-H.M.C.S. *Nadur*, ex-H.M.S. *Adur*)

Builders :	Canadian Vickers, Montreal
Launched :	22 Aug., 1942
Displacement :	1,445 tons (2,360 tons *full load*)
Dimensions :	301½ × 36½ × 13¾ feet
Guns :	3—4·1 inch (105 mm.) d.p., 4—4·7 mm. AA., 6 D.C.T.
Machinery :	Triple expansion. I.H.P. : 5,500 = 20 kts.
Boilers :	2 Admiralty 3-drum type
Complement :	140

Notes.—Former United States "Asheville" class, closely duplicating British "River" type. Pendant No. P 31.

Submarines.

SANTIAGO DEL ESTERO. *Added 1937, Official.*

SALTA **SANTA FÉ** **SANTIAGO DEL ESTERO**

Displacement :	920 tons *surface*, 1,175 tons *submerged*
Dimensions :	220 (*w.l.*), 226½ (*o.a.*) × 21 × 13 feet
Guns :	1—4 inch, 1—37 mm. AA.
Tubes :	8—21 inch
Machinery :	2 Tosi 6-cylinder Diesels. H.P. : 3,000 = 17.5 kts. (*surface*). B.H.P. : 1,400 = 9 kts. (*submerged*)

Notes.—Cavallini type. Ordered Oct., 1927. Named after provinces, and differentiated by numerals painted on conning towers.

Pendant Nos.	*Name*	*Builders*	*Launched*
S 3	*Salta*	Cantiere Navale	17 Jan., 1932
S 1	*Santa Fe*	Franco Tosi,	11 Jul., 1931
S 2	*Santiago del Estero*	Taranto	28 Mar., 1932

Minesweepers (Rated as *Rastreadores*).

8 "Bouchard" Class.

GRANVILLE. 1938, *Official.*

BOUCHARD **GRANVILLE** **PY** **SEAVER**
DRUMMOND **PARKER** **ROBINSON** **SPIRO**

Displacement :	450 tons *standard* (520 tons *full load*)
Dimensions :	164 (pp.), 193 (*o.a.*) × 24 × 7 feet (*max.*)
Guns :	2—3·9 inch, 47 cal., 2—40 mm. AA., 2 M.G.
Machinery :	2 sets M.A.N. 2-cycle Diesels. B.H.P. : 2,000 = 15 kts.
Oil fuel :	50 tons
Radius :	3,000 miles at 10 kts.
Complement :	62

Notes.—All laid down 1935-37. These were the first Argentine warships to be built in local shipyards. They are named after distinguished naval officers (several of whom were of British extraction). *Fournier* of this class was wrecked and sank in Straits of Magellan, Sept. 22, 1949. *Py* was formerly known as *Comodoro Py*

Pendant Nos.	*Name*	*Builders*	*Launched*
M 7	*Bouchard*	Rio Santiago Naval Yard	20 Mar., 1936
M 2	*Drummond*	Rio Santiago Naval Yard	19 Jun., 1936
M 4	*Granville*	Rio Santiago Naval Yard	27 Jan., 1937
M 11	*Parker*	Sanchez Shipyard, San Fernando	2 May, 1937
M 10	*Py*	Rio Santiago Naval Yard	30 Mar., 1938
M 3	*Robinson*	Hansen & Puccini, San Fernando	18 Aug., 1938
M 12	*Seaver*	Hansen & Puccini, San Fernando	18 Aug., 1938
M 13	*Spiro*	Rio Santiago Naval Yard	7 Jun., 1937

Motor Torpedo Boats

Added 1951, Argentine Navy, Official.

LT **LT 2** **LT 3** **LT 4** **LT** **LT 6** **LT 7** **LT** **LT 9**

Displacement :	45 tons
Dimensions :	71 × 20 × 4½ feet
Guns :	2—20 mm. AA., 2 M.G.
Torpedo Tubes	2—21 inch
Machinery :	3 Packard engines H.P. : 4,500 = 42 kts. (*max.*)
Complement :	12

Note.—Built in U.S.A. in 1946. Pendant Nos. P 81—P 89.

Surveying Vessels.

BAHIA BLANCA. 1952, *Argentine Navy, Official.*

BAHIA BLANCA (ex-*San Luis*) **MADRYN** (ex-*Comodero Rivadavia, ex-San Juan*)

Displacement :	970 tons
Dimensions :	195 (*o.a.*) × 33 × 11 feet
Machinery :	Hawthorn-Werkspoor Diesel 1 shaft. B.H.P. : 700 = 12 kts.
Boilers :	1 single-ended Scotch to supply steam to auxiliary machinery.
Oil fuel :	88 tons
Radius :	4,000 nautical miles
Complement :	92

Notes.—Both built Hebburn-on-Tyne. Delivered Feb. 1928. Named after Argentine ports.

Name	*Builders*	*Launched*	*Completed*
Bahia Blanca	Hawthorn, Leslie & Co., Ltd	26 Oct., 1927	Feb., 1928
Madryn		27 Sep., 1927	Feb., 1928

Training Ship (*Buque Escuela*).

1952, *Argentine Navy, Official.*

PRESIDENTE SARMIENTO

Built :	Birkenhead
Launched :	1898
Displacement :	2,850 tons
Dimensions :	251½ × 43½ × 23½ feet
Guns :	3—4·7 inch, 45 cal. ; 1—4 inch, 2—6 pdr., 2—3 pdr.
Machinery :	Compound. I.H.P. : 2,800 = 15 kts.
Boilers :	1 Niclausse, 1 Yarrow, 2 cylindrical single-ended
Coal :	330 tons
Radius :	4,500 miles at 10 kts.
Complement :	294

Notes.—Sheathed and coppered. Built as Training Ship for boys and named after Domingo Faustino Sarmiento, who founded the Naval School after being elected President of the Republic in 1868. Refitted in 1940-41. Three above water torpedo tubes suppressed.

River Monitors.

2 "Parana" Class.

PARANÁ. 1952, *Argentine Navy, Official.*

PARANÁ **ROSARIO**

Displacement :	1,055 tons
Dimensions :	240 × 32¾ × 7½ feet
Guns :	2—6 inch howitzers, 6—3 inch, 4—40 mm. AA., 6 M.G.
Armour :	3" Belt (amidships), 1½"-1" Deck, 3" Conning tower
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,600 = 15 kts.
Boilers :	2 Yarrow
Coal :	120 tons
Radius :	2,400 miles *nominal* at 10·5 kts.
Complement	142

Note.—Named after cities on the River Paraná, and are remarkable in that their main armament consists of howitzers, 13 calibres in length. There are some patrol launches on the River Paraná.

Name	*Builders*	*Launched*
Paraná	Armstrong	28 Apr., 1908
Rosario	Armstrong	27 Jul., 1908

Repair Ships (*Buques Taller*).

INGENIERO GADDA (Q.22) **INGENIERO IRIBAS**

Displacement :	2,125 tons *standard* (4,100 tons *full load*)
Dimensions :	328 × 50 × 16½ feet
Guns :	8—40mm., 8—20 mm. AA.
Machinery :	2 sets Diesels. B.H.P. : 1,800 = 11 kts.
Fuel :	600 tons
Complement :	253

Notes.—Two propellers and two rudders. Rated as Workshop Vessels. Bear the names two engineers of the Argentine Navy who died on duty. Former landing ships.

Rescue Ship (*Buque de Salvamento*).

ALFEREZ MACKINLAY

Launched :	1914
Displacement :	700 tons
Dimensions :	193½ × 28½ × 13 feet
Machinery:	H.P. : 520 = 10 kts.
Fuel :	100 tons

Notes.—Built in Netherlands. Former Surveying Vessel used as Lighthouse Inspection Vessel. Was recently fitted out as a Rescue Ship in the Rio Santiago works.

Transports (*Transportes*).

BAHIA AGUIRRE

1952, *Argentine Navy, Official.*

BAHIA AGUIRRE **BAHIA BUEN SUECESCO** **BAHIA THETIS**

Displacement :	5,000 tons (*approx.*)
Dimensions :	334½ × 46 × 23 feet
Machinery :	2 sets Nordberg Diesels. 2 shafts.
Oil fuel :	400 tons.

Notes.—Built in Canada. *Bahia Buen Suecesco* completed at Halifax, Nova Scotia, June, 1950.

LE MAIRE.

1952, *courtesy Lieut. Aldo Frecarroli.*

LA PATAIA **LE MAIRE** **LES ECLAIREURS**

Displacement :	6,100 tons (*approx.*)
Dimensions :	335½ × 50½ × 30½ feet
Machinery :	2 sets Diesels. 2 shafts.
Oil fuel :	400 tons

Notes.—Built in Italy (CRDA). Laid down 12 April 1948 (*Le Maire* 25 April), launched 25 June, 22 Oct. and 30 March, 1949, respectively and all completed June 1950, being delivered 2 Oct. 1951.

SAN JULIAN

Builders :	Wheeler Shipbuilding Corp.
Launched :	1944
Displacement :	930 tons
Dimensions :	176 × 32½ × 11 feet
Machinery :	2 sets Diesels. 2 shafts. B.H.P. : 1,000 = 10 kts.

USHUAIA

Built :	Rio Santiago
Launched :	1939
Displacement :	1,275 tons *full load*
Dimensions :	211 × 31½ × 11½ feet
Machinery :	2 sets Diesels. 2 shafts. B.H.P. : 1,200 = 12 kts.
Oil fuel :	100 tons

Note —Named after the capital of the territory of Tierra del Fuego.

Fast Fleet Oiler.

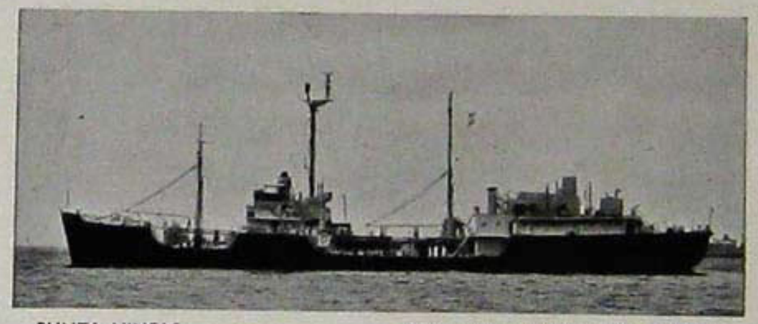
1951, *Photo, courtesy Swan, Hunter & Wigham Richardson.*

PUNTA MENDANES

Builders :	Swan, Hunter & Wigham Richardson Ltd., Wallsend-on-Tyne
Launched :	20 Feb., 1950
Completed :	10 Oct., 1950
Measurement :	8,250 tons *deadweight*
Dimensions :	470 × 62 × 35 (*depth*) feet
Machinery :	Double reduction geared turbines. 2 shafts.
Boilers :	2 Babcock & Wilcox two-drum integral furnace water-tube units.
Speed :	Over 19 kts. obtained on trials.

Notes.—In her equipment this ship, which is a unit of the Argentine Navy and is available as a training vessel for personnel, may be regarded as the embodiment of the experience in the latest fleet oilers, and is said to be the finest and fastest of her type afloat. Fitted for fuelling warships at sea. Boilers built under licence by the Wallsend Slipway & Engineering Company. Steam conditions of 400 lb. per sq. in. pressure and 750° temperature.

Oilers (*Buques Tanques*).



PUNTA NINFAS.

1949, *courtesy Newport News S.B. Co.*

PUNTA NINFAS (*ex-Black Bayou, ex-Michigamme, AOG 65*) **PUNTA DELGADA** (*ex-Sugarland, ex-Nanticoke AOG 66*)
PUNTA LOYOLA (*ex-Capitan, ex-Klickitat, AOG, 64*)

Displacement :	6,000 tons
Dimensions :	325 × 48½ × 19 feet
Machinery :	Westinghouse Diesel. 1 shaft. B.H.P. : 1,400 = 10·5 kts.
Complement :	92

Note.—Bear names of geographical locations. All U.S.M.C. type T1-M-BT1

Name	*Builders*	*Launched*
Punta Delgada	St. John's River S.B. Co.	7 Apr., 1945
Punta Loyola	St. John's River S.B. Co.	24 Mar., 1945
Punta Ninfas	St. John's River S.B. Co.	31 Mar., 1945

Oilers (Rated as *Transportes*).

PUNTA CIGUEÑA (*ex-Sulphur Bluff*) **PUNTA RASA** (*ex-Salt Creek*)

Displacement : 2,200 tons
Dimensions : 221 × 37 × — feet
Machinery : Diesel. 1 shaft. B.H.P. : 800 = 10 kts.

Notes.—Commissioned in 1947. Named after capes. U.S. M.C. type TI-M-A2

Name	*Builders*	*Launched*	*Completed*
Punta Cigueña	Todd Galveston Drydocks Inc.	1944	Mar., 1944
Punta Rasa	Barnes Dulath S.B. Co.	1943	1943

PUNTA ALTA

Builders : Puerto Belgrano
Launched : 1937
Displacement : 1,600 tons
Dimensions : 200 × 33½ × 11½ feet
Deadweight capacity : 800 tons

Note.—Named after a headland.

Tank Landing Ships.

1951, *Argentine Navy, Official.*

BDT 1 **BDT 3** **BDT 5** **BDT 7** **BDT 9** **BDT 11**
BDT 2 **BDT 4** **BDT 6** **BDT 8** **BDT 10** **BDT 12**

Builders : Puget Sound Bridge and Dredging Co., Seattle, U.S.A.
Launched : 1944
Displacement : 4,150 tons
Dimensions : 328 × 50 × 11½ feet
Machinery : 2 sets Diesels. B.H.P. 1,800 : 11 kts. Two screws

Notes.—Ex-United States LST's. Have two rudders. BDT 7 to 11 named *Dona Elora, Donna Stella, Dona Dorthea, Dona Barbara, Dona Irma.*

Medium Landing Ships.

BDM 2 1951, *Argentine Navy, Official.*

BDM 1 (Q.69) **BDM 2 (Q.70)**

Displacement : 900 tons
Dimensions : 236½ × 33½ × 8 feet
Machinery : 2 sets Diesels. 2 shafts. B.H.P. : 2,800 = 13 kts

Note.—Former American LSM's.

Infantry Landing Craft.
(*Buques Desembarco Infanteria*).

1952, *Argentine Navy, Official.*

BDI 1 (Q.64)	**BDI 4 (Q.67)**	**BDI 7 (Q.60)**	**BDI 10 (Q.63)**	**BDI 13 (Q.55)**
BDI 2 (Q.65)	**BDI 5 (Q.58)**	**BDI 8 (Q.61)**	**BDI 11 (Q.56)**	**BDI 14 (Q.54)**
BDI 3 (Q.66)	**BDI 6 (Q.59)**	**BDI 9 (Q.62)**	**BDI 12 (Q.57)**	**BDI 15 (Q.68)**

Displacement : 380 tons
Dimensions : 158 × 23½ × 5 feet
Machinery : 8 sets Diesels. B.H.P. : 3,200 = 16 kts. Two reversible propellers.

Note.—Ex-American LCI's.

Personnel and Vehicle Landing Craft.

EDPV 1	**EDPV 7**	**EDPV 13**	**EDPV 18**
EDPV 2	**EDPV 8**	**EDPV 14**	**EDPV 19**
EDPV 3	**EDPV 9**	**EDPV 15**	**EDPV 20**
EDPV 4	**EDPV 10**	**EDPV 16**	**EDPV 21**
EDPV 5	**EDPV 11**	**EDPV 17**	**EDPV 22**
EDPV 6	**EDPV 12**		

Displacement : 12 tons
Dimensions : 35½ × 12 × 3½ feet

Note.—Ex-American LCVP's.

Tugs (*Remolcadores*).

PEHUENCHE **TONOCOTE**

Notes.—*Pehuenche* under construction in Rio Santiago. *Tonocote* commissioned for service in Sept. 1950.

GUARANI. 1949, *Argentine Navy, Official.*

CHARRUA **GUARANI**

Builders : Marietta Manufacturing Co. U.S.A.
Displacement : 982 tons
Dimensions : 143 × 34 × 18 feet
Machinery : Unaflow steam engine. 1 shaft. H.P. : 1,200 = 12 kts. Oil fuel

Tugs—*continued.*

CHIRIGUANO. 1949, *Argentine Navy, Official.*

CHIRIGUANO **SANAVIRON**
DIAGUITA **YAMANA**

Builders : Levingstone Shipbuilding Co., Orange, Texas, U.S.A.
Launched : 1947
Displacement : 689 tons
Dimensions : 133½ (*w.l.*), 143 (*o.a.*) × 34 × 15 feet
Machinery : Diesel-electric. B.H.P. : 925 = 11·5 kts.

Note.—All six of above ships bear names of South American Indian tribes.

MATACO. 1951, *Argentine Navy, Official.*

MATACO **TOBA**

Measurement : 339 tons gross
Dimensions : 130½ (*pp.*), 137 (*w.l.*) × 28½ × 13½ feet
Machinery : Triple expansion. I.H.P. : 1,100 = 12 kts. 2 screws. Oil fuel.

Name	*Builders*	*Launched*	*Completed*
Mataco	Hawthorn	24 Jan., 1928	Mar., 1928
Toba	Leslie	23 Dec., 1927	Mar., 1928

ONA **QUEANDI**

Builders : Thornycroft
Launched : 1913
Measurement : 345 tons gross
Dimensions : 130 × 28 × 12 feet
Machinery : Triple expansion. I.H.P. 1,200 = 12 kts.

Note.—Old tug *Mataros*, 570 tons displacement, launched 1908, to be discarded.

BELGIUM

Flags.

ROYAL STANDARD

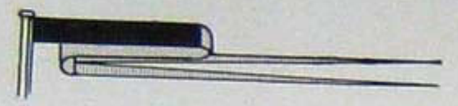
Note—Field is reddish purple

ENSIGN

NATIONAL.

MARINE DE L'ETAT

JACK



PENDANT

MERCANTILE MARINE

Black

Yellow

Red

Administration.

(*a*) The Marine Militaire (Force Navale) is attached to the Ministry of National Defence.

(*b*) The Marine de l'Etat (State Marine) is dependant of Ministry of Communcations, Marine Administration.

(*c*) The Marine Marchande (Mercantile Marine)

(*d*) The Air-Sea Rescue Service is the responsibility of the Air Force.

Control of The Force Navale Belge, created 1 February, 1946, was transferred from the Ministry of Communications to the Ministry of National Defence, 28 February, 1949.

Minister of Defence : Colonel E. Degreef.

Chief of Naval Staff : Capitaine de Vaisseau L. J. J. Robins, A.D.C.

Military Attaché in London : Lt.-Col. E. Delelienne.

Personnel.

3,000 officers and men.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 203 vessels of 490,575 tons *gross*.

Uniforms.

Commodore	Capitaine de Vaisseau	Capitaine de Fregate	Capitaine de Corvette	Lieutenant de Vaisseau de 1re Classe	Lieutenant de Vaisseau	Enseigne de Vaisseau	Aspirant de Marine
Commodore	*Captain*	*Commander*	*Lieutenant-Commander*	*Lieutenant (Senior)*	*Lieutenant*	*Sub-Lieutenant*	

New Programme.

1 or more destroyer escorts (DE). 2 troop Transports.

15 motor minesweepers, U.S. Navy type. 2 oceangoing tugs.

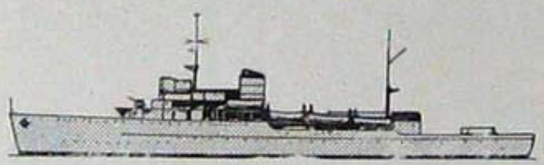
The *Belgian Rhine Squadron* was founded in 1952. It will be composed of six 35 ton gunboats built at the Theodor Shipyards of Regensburg, Germany, and 2 LCM.

Silhouettes.

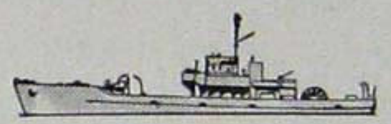
* Scale : 150 feet = 1 inch.

VICTOR BILLET.

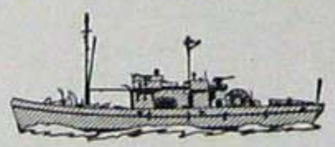
A. DE GERLACHE *Class**



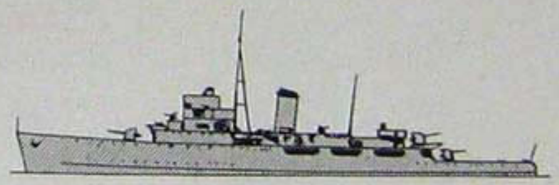
KAMINA*



MMS 947.



MMS 940-946.



ARTEVELDE.

BELGIUM—Frigate and Ocean Minesweepers

Frigate.

LUITENANT TER ZEE VICTOR BILLET. 1953, *Skyfotos.*

LUITENANT TER ZEE VICTOR BILLET. 1952, *official.*

LUITENANT TER ZEE VICTOR BILLET (*ex-U.S.S. Sheboygan*)

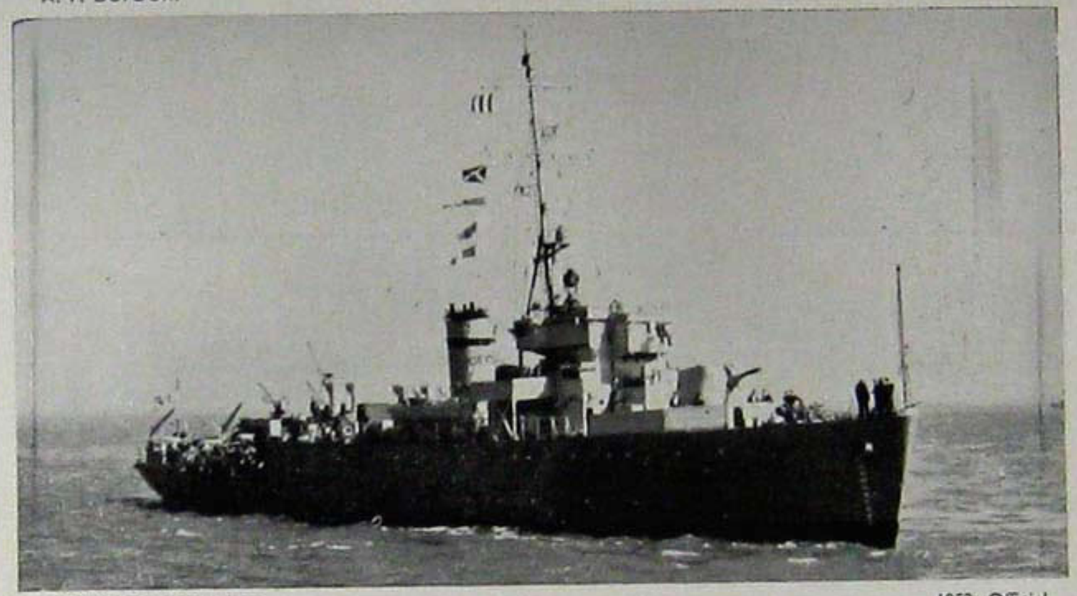
Builders :	Globe, Superior
Laid down :	1942.
Launched :	31 Jul., 1943
Completed :	1944

Displacement :	1,430 tons (2,100 tons *full load*)
Dimensions :	285½ (*w.l.*), 304 (*o.a.*) × 37½ × 13¾ feet
Guns :	3—3 inch, 50 cal., 6—40 mm. AA., 2—20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kcs.
Boilers :	2, of 3-drum type
Oil fuel :	650 tons
Radius :	7,500 miles at 12 kcs.
Complement :	180 (as frigate)

Notes.—Former United States patrol frigate of " Tacoma " class, PF 57. Purchased and transferred in 1947. The design closely resembles that of British " River " class frigates. All welded hull. Named after a Belgian naval officer who died gallantly in the Dieppe raid Aug. 19, 1942. Formerly Belgian weather observation ship, but left Meteorological Service June 1950. Employed as fishery protection vessel (*garde pêche*) and training ship (*noiver-ecole*) Pendant No. F 910.

Ocean Minesweepers (*Dragueurs-escorteurs*)

A. F. DUFOUR. 1953, *A. & J. Pavia.*



ADRIEN DE GERLACHE. 1952, *Official*

ADRIEN DE GERLACHE (*ex-Liberty*) **DE BROUWER** (*ex-Spanker*) **GEORGES LECOINTE** (*ex-Cadmus*)
A. F. DUFOUR (*ex-Fancy*) **DE MOOR** (*ex-Rosario*) **J. E. VAN HAVERBEKE** (*ex-Ready*)

Displacement :	1,040 tons (1,335 tons *full load*)
Dimensions :	225 (*pp.*), 235 (*o.a.*) × 35½ × 11½ (*max.*) feet
Guns :	1—4 inch, 4—40 mm. AA.
Boilers :	2, of 3-drum type
Machinery :	Geared turbines. 2 shafts. S.H.P. : 2,000 = 16·5 kts.
Complement :	105

Notes.—Formerly of the fastest and most efficient class of minesweepers in the British Navy, frequently used as escort vessels. All built by Harland and Wolff, except *Dufour* by Blyth S.B. & D.D. Co.

Pendant No.	*Name*	*Begun*	*Launched*	*Completed*	*Transferred*
M 900	*Adrien de Gerlache*	27 Nov. 1943	22 Aug. 1944	18 Jan. 1945	29 Nov. 1949
M 903	*A. F. Dufour*	22 July 1942	5 Apr. 1943	21 Nov. 1943	1950
M 904	*de Brouwer*	22 Sep. 1942	20 Apr. 1943	9 July 1943	Feb. 1953
M 905	*de Moor*	22 Sep. 1942	3 Apr. 1943	20 Aug. 1943	13 Jan. 1953
M 901	*Georges Lecointe*	21 July 1941	27 May 1942	9 Sep. 1942	31 June 1950
M 902	*J. E. Van Haverbreke*	14 Apr. 1942	11 Jan. 1943	21 May 1943	4 July 1951

Coastal Minesweepers (*Dragueurs de mines côtiers*)

New Construction

4 U.S. AMS Type 60

Displacement : 370 tons
Dimensions : 138 (*p.p.*), 144 (*o.a.*) × 27

Notes.—Auxiliary motor minesweepers of wooden construction. Built in U.S.A. New type of vessel constructed throughout of materials with the lowest possible magnetic attraction to attain the greatest possible safety factor when sweeping for magnetic mines. For appearance see drawing of " Flower " class in Italian section.

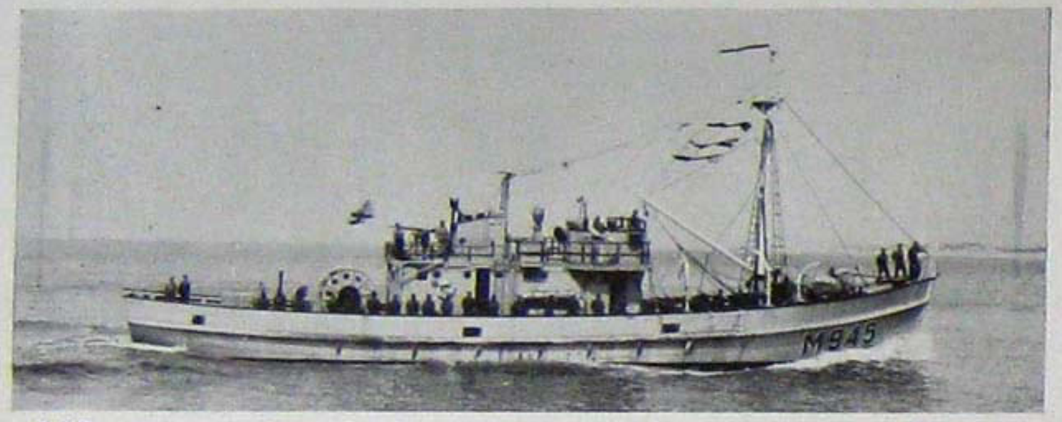
1 British 126′ Type

M 947 (*ex-MMS 1020*)

Displacement : 360 tons
Dimensions : 126 (*pp.*), 140 (*o.a.*) × 26 × 10½ (*mean*), 12½ (*max.*) feet
Guns : 2—20 mm. AA., 2 M.G.
Machinery : Diesel. B.H.P. : 500 = 10 kts.
Complement : 22

Notes.—Larger type motor minesweepr on loan from Great Britain, but employed as a danlayer, and for fishery protection

7 British 105′ Type



M 945 1952, *Official.*

M 940 (*ex-MMS 182*)
M 941 (*ex-MMS 187*)
M 942 (*ex-MMS 188*)
M 943 (*ex-MMS 189*)
M 944 (*ex-MMS 191*)
M 945 (*ex-MMS 193*)
M 946 (*ex-MMS 266*)

Displacement 255 tons
Dimensions : 105 (*pp.*), 119 (*o.a.*) × 23 × 9½ feet
Guns : 1—20 mm. AA., 2. M.G.
Machinery : Diesel. B.H.P. : 500 = 10 kts.
Complement : 18

Notes.—Smaller type motor minesweepers on loan from Great Britain. Employed to complete the sweeping of mines in the Belgian Sector.

Air Sea Rescue Launches.

V 01 (*ex-V 2592*)
V 02 (*ex-V 2651*)

Note.—Belong to Force Aérienne for Air/Sea Rescue Service.

Seagoing Motor Tug.

SUB-LIEUTENANT VALKE

Displacement : 200 tons
Dimensions : 81 (*p.p.*), 93 (*o.a.*) × 21 × 9 feet
Machinery : Diesels. B.H.P. : 600 = 12·5 kts.

Note.—Built in Haarlem, Netherlands, 1951.

Naval Auxiliary Transport.

1952, *Official*

KAMINA (*ex-Royal Harold, ex-Hermann van Wissmann*)

Displacement : 3,840 tons *standard* (5,750 tons *full load*)
Dimensions : 374 × 49½ × — feet
Guns : 2—3 inch, 4—40 mm. AA., 5—20 mm. AA.
Machinery : Diesel. B.H.P. : 3,600 = 15 kts. (cruising)
Complement : 168

Notes.—Troop capacity 653. Built in 1940 at Hoboken, Antwerp by J. Cockerill for Poland. Seized by Germans and used as support-ship for U-boats in Norway. Transferred to Britain 1945, and finally given to Belgium in Oct. 1950. Pendant No. AP 907.

Depot Ship.

1946, *Official.*

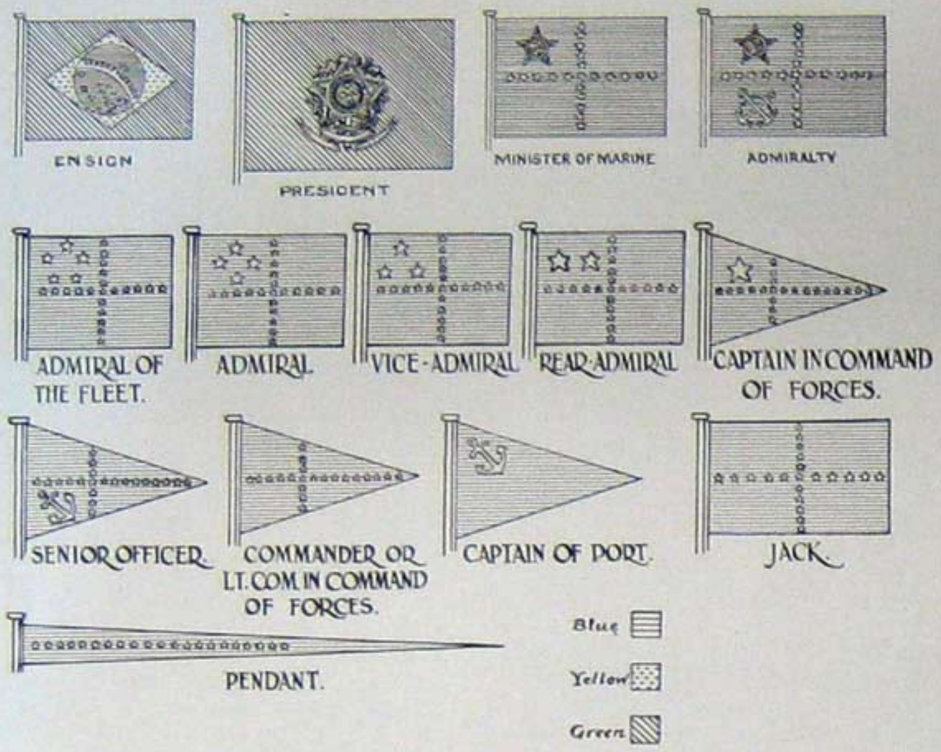
ARTEVELDE (*ex-K4, ex-Lorelei, ex-Artevelde*)

Displacement : 1,640 tons (2,270 tons *full load*)
Dimensions: 292 (*pp.*), 323 (*o.a.*) × 34½ × 12 feet
Machinery: Parsons-Rateau geared turbines, 2 shafts. S.H.P. : 30,000 = 30 kts. (designed)
Boilers : 2 Babcock & Wilcox

Notes.—Laid down at the Cockerill Yard at Antwerp in 1939, seized by the Germans in 1940, and completed by Wilton-Fijenoord, but was recovered at Cuxhaven after the war, and has been converted into a depot ship and training ship for engine room ratings. Speed now something like 8 kts. ; engines were damaged 1945, and so far not yet repaired.

BRAZIL
(BRASIL)

Flags.



Administration.

Minister of Marine : Vice-Almirante Renato Guillobel.

Chief of Naval Staff : Almirante de Esquadra Attila Monteiro Aché.

Naval Attache in London : Captain Carlos Paraguassú de Sa.

Personnel.

1,300 officers, 25,000 men (including 4,000 marines).

Uniforms.

Highest rank in the Brazilian Navy is that of *Almirante*, with four thick stripes above the broad band, corresponding to British *Admiral of the Fleet*, but the rank is not held in peace-time.

Non-executive officers wear no curl, but have badges of branch above top stripe as above
Marine Corps officers wear distinctive uniforms, but ranks and stripes correspond with those of the Navy.
Naval Constructors wear both curl and badge of branch.
Supply Officers and *Accountants* merged into one branch in 1952, and the Accountant badge was suppressed.

Cops : Similar to those of British Navy.

New Construction Programme.

In 1952 Brazil placed orders with Japan for the construction of 22 war vessels comprising 6 giant destroyers of 3,000 tons displacement, 6 oceangoing submarines of 1,000 tons, 2 armed troop transports of 4,000 tons, 7 fleet supply ships of 4,000 tons, and a target towing vessel of 1,000 tons.

Mercantile Marine.

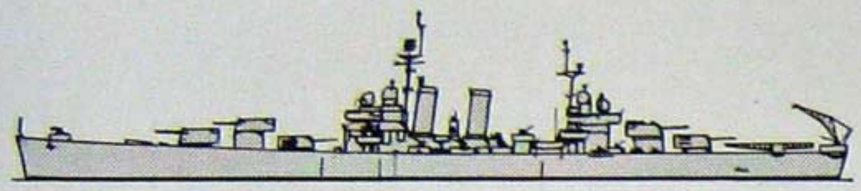
Lloyd's Register appendix, 1953 :
384 vessels of 797,155 tons *gross*.

Scale : 150 feet = 1 inch

TAMANDARÉ

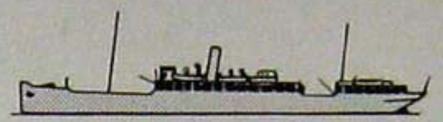
BAURU *Class.*

RIO BRANCO.

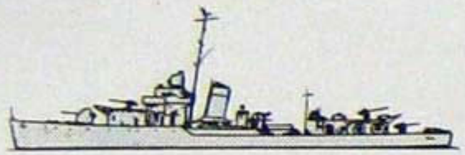


BARROSO

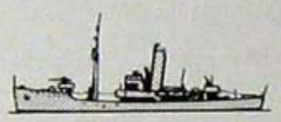
CARIOCA *Class.*



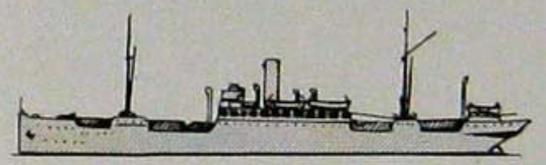
ALMIRANTE FRONTIN.



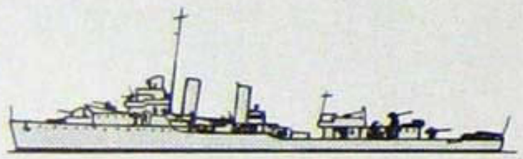
AMAZONAS *Class.*



BARRETO MENEZES *Class.*

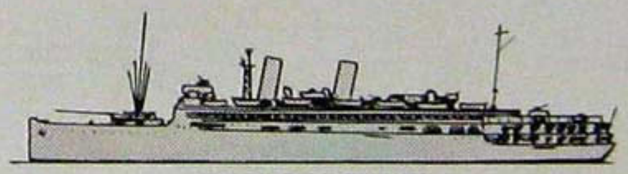


BELMONTE



MARCILIO DIAS *Class.*

GUAPORE *Class.*



DUQUE DE CAXIAS

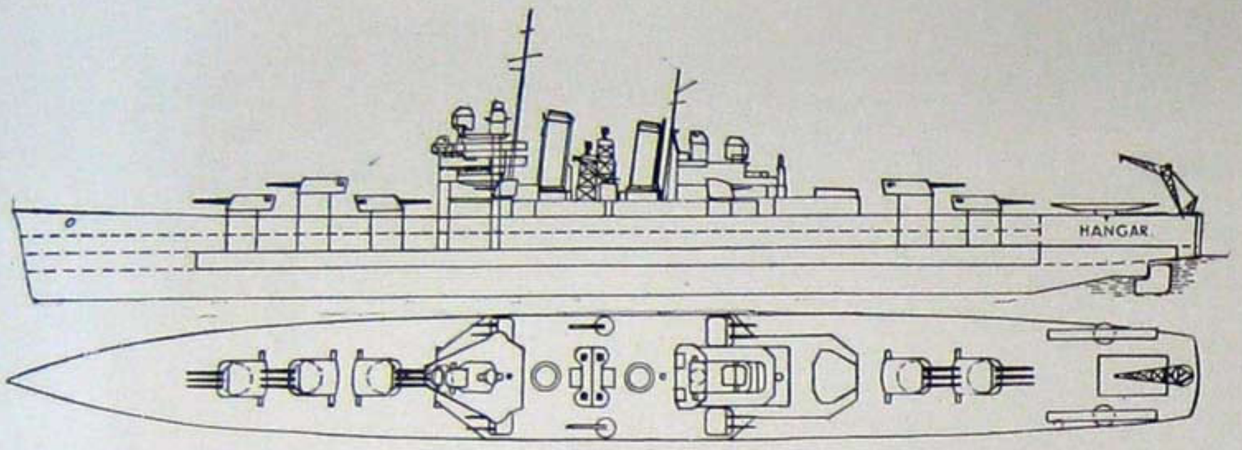
2 " Almirante " Class.

BARROSO (*ex-Philadelphia*) **TAMANDARÉ** (*ex-St. Louis*)

Displacement :	*Barroso*, 9,700 tons *standard*, 12,500 tons *full load*. *Tamandare*, 10,000 tons *standard*, 12,900 tons *full load*
Dimensions :	Length : 608½ feet (*o.a.*). Beam : 69 feet. Draught : 24 (*max.*) feet
Guns :	15—6 inch, 47 cal., 8—5 inch, 25 cal., 28—40 mm. AA., 24—20 mm. AA.
Aircraft :	4 (normal capacity), could accommodate 6.
Armour :	4"—1½" belt, (5" side in *Tamandare*), 3" + 2" decks, 5"—3" turrets, 8" C.T.
Machinery :	Westinghouse geared turbines, 4 shafts, S.H.P. : 100,000 = 32·5 kts.
Boilers :	8 Babcock & Wilcox Express type
Oil fuel :	2,100 tons
Radius :	14,500 miles at 15 kts.
Complement :	888 to 975

TAMANDARÉ

1953, Brazilian Navy, Official.



Note to Plan.—Represents *Tamandaré*. Plan o *Barroso* is similar to that o *Capitan Prat* in Chilean section

BARROSO.

1952, Brazilian Navy, Official.

General Notes.—Of same dimensions and generally of similar characteristics, but not sister ships. They were formerly CL 41 and CL 49, respectively, of the U.S. " Brooklyn " and " St. Louis " classes. Purchased from the United States (transferred on 29 Jan. 1951) for a sum representing 10 per cent. of their original cost ($37,000,000) plus the expense of reconditioning them. *Tamandaré* differs from *Barroso* in having her 5-inch guns mounted in pairs behind shields on high bases, a different scheme of boat stowage, a small tripod mast immediately abaft second funnel, and after gunnery control arrangements redistributed.

BARROSO

Added 1951, Graphic Photo Union.

Hangar Notes.—The hangar in the hull right aft could accommodate 6 aircraft if necessary together with engine spares and duplicate parts, though 4 aircraft has been the normal capacity. The incorporation of this hangar resulted in a very wide and nearly flat counter and high freeboard aft and also gave the after guns higher command. Above the hangar two catapults were mounted as far outboard as possible, and a revolving crane was placed at the stern extremity overhanging the aircraft hatch.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Barroso	Philadelphia Navy Yard	23 May 1935	17 Nov., 1936	28 Jul., 1938
Tamandaré	Newport News S.B. Co.	10 Dec., 1936	15 Apr., 1938	Dec., 1939

Destroyers (*Contratorpedeiros*).

ARAGUAYA

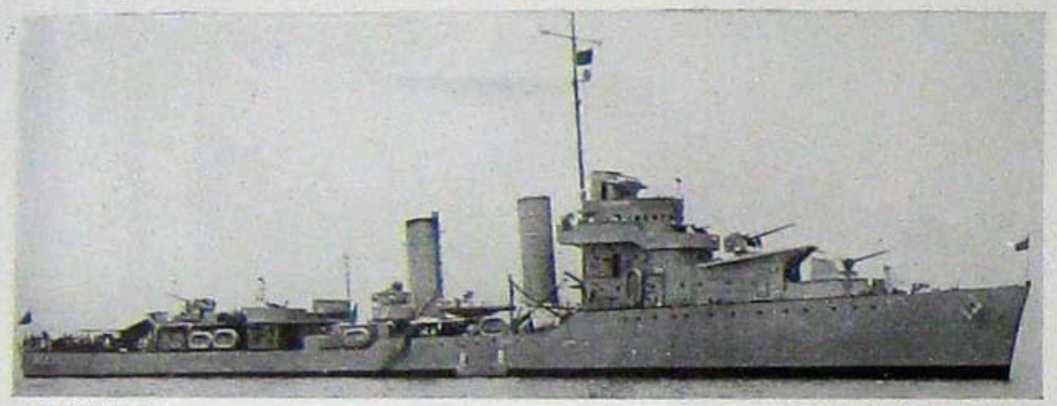
1952, *Brazilian Navy, Official.*

ACRE **AJURICABA** **AMAZONAS** **APA** **ARAGUARI** **ARAGUAYA**

Displacement :	1,450 tons (1,800 tons *full load*)
Dimensions :	323 (*o.a.*) × 35 × 8¼ (*mean*) 9 (*max.*) feet
Guns :	4—5 inch, 2—40 mm. AA., 4—20 mm. AA., 4 D.C.T
Tubes :	8—21 inch (quadrupled)
Machinery :	Parsons geared turbines. S.H.P. : 34,000 = 34 kts.
Boilers :	3, of 3-drum type
Oil fuel :	150 tons
Complement :	150

Notes.—All built by Ilha das Cobras, Rio de Janeiro. Named after rivers. Designated CT. Pendant Nos. A4, A3, A1, A6, A2, A5.

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Acre	28 Dec., 1940	30 May, 1945	Dec., 1951	*Apa*	28 Dec., 1940	30 May, 1945	Dec., 1951
Ajuricaba	28 Dec., 1940		Dec., 1951	*Araguaya*	20 Jul., 1940	24 Nov., 1943	3 Sep., 1949
Amazonas	20 Jul., 1940	29 Nov., 1943	10 Nov., 1949	*Araguari*	28 Dec., 1940		Dec., 1951



GREENHALGH.

1952, *Brazilian Navy, Official.*

GREENHALGH **MARCÍLIO DIAS** **MARIZ E BARROS**

Displacement :	1,500 tons (2,200 tons *full load*)
Dimensions :	341 (*pp.*), 360 (*o.a.*) × 35 × 10 (*mean*) 12 (*max.*) feet
Guns :	4—5 inch, 38 cal. (d.p.), 4—40 mm. AA., 4—20 mm. AA.
Tubes :	4—21 inch (quadrupled)
Machinery :	Geared turbines by General Electric Co. S.H.P. : 42,800 = 36.5 kts.
Boilers :	4 high-pressure watertube of Express type by Babcock & Wilcox
Oil fuel :	550 tons
Radius :	6,000 miles
Complement :	190

Notes.—All of U.S.A. design and built at Ilha das Cobras Rio de Janeiro with material from U.S.A. These ships are generally similar to destroyers of U.S. Navy, and are armed with guns of American manufacture. Launched 8 July 1941, 20 July 1940, and 28 Dec. 1940, respectively. All three commissioned Nov., 29, 1943. Designated CT. Pendant Nos. M 3, M 1, and M 2, respectively.

Frigates (Escort Destroyers).

BAURÚ

1952, *Brazilian Navy, Official.*

BABITONGA (ex-*Alger*) **BAURÚ** (ex-*McAnn*) **BENÁVENTE** (ex-*Christopher*) **BOCAINA** (ex-*Marts*)
BAEPENDI (ex-*Cannan*) **BEBERIBE** (ex-*Herzog*) **BERTIOGA** (ex-*Pennewill*) **BRACUI** (ex-*Reybold*)

Displacement :	1,275 tons (1,617 tons *full load*)
Dimensions :	306 (*o.a.*) × 37 × 10¾ feet
Guns :	3—3 inch (dual purpose), 2—40 mm., 8—20 mm.
Tubes :	3—21 inch also D.C.T.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 12,000 = 23 kts. (19 kts. in service)
Oil fuel :	300 tons
Complement :	218

Note.—Ex-American Destroyer Escort type. Launched 1943 (*Baependi*, 25 May, *Benávente* June, *Bertioga* and *Bocaina* 8 Aug., *Baurú* 22 Aug., *Beberibe* and *Bracui* 5 Sept.). Transferred from U.S. Navy 1944. Designated CTe. Pendant Nos. BE 7, 5, 4, 2, 6, 1, 8, 3.

Submarines (*Submarinos*).

TIMBIRA.

1952, *Brazilian Navy, Official.*

TAMOIO (*ex-Ascianghi*) **TIMBIRA** (*ex-Gondar*) **TUPI** (*ex-Neghelli*)

Displacement :	615 tons *surface*, 853 tons *submerged*
Dimensions :	195¼ × 21 × 13 feet
Guns :	1—3.9 inch, 47 cal., 4—13 mm. M.G.
Tubes :	6—21 inch (4 bow 2 stern)
Machinery :	Fiat Diesels and electric motors. H.P. : 1,350/800 = 14/7.5 kts.
Complement :	37

Notes.—Built at Spezia by Odero-Terni-Orlando. Launched, 14 Feb., 1937, 30 Dec. 1936, 28 Nov. 1936, respectively. All three delivered in September, 1937. Named after native tribes. *Tupi* fitted for supersonic signalling. Pendant Nos., T3, T2, T1.

Corvettes (Rated as *Corvetas* and *Navios-Faroleiros*).

BARRETO DE MENEZES. 1952, *M. J. Meister*

BARRETO MENEZES (*ex-Paru*)
FELIPE CAMARÃO (*ex-Papaterra*)
HENRIQUE DIAS (*ex-Parga*)

Displacement :	680 tons (*full load*)
Dimensions :	160 (pp.), 176¾ (*o.a.*) × 28 × 16 feet (*max.*)
Guns :	1—3 inch, 4—20 mm., 4 D.C.T.
Machinery :	Triple expansion. I.H.P. : 1,000 = 12 kts.
Boilers :	Coal fired

General Notes.—All laid down as trawler type patrol vessels for the British Navy, but transferred to the Brazilian flag in 1942. *Barreto Menezes* and *Henrique Dias* are fitted as Surveying Vessels. *Matias de Albuquerque* (F1) transferred from Navy to the Fisherman's Confederation in 1952. *Fernandes Vieira* (F4) was scrapped in 1953.

Historical Notes.—Named after heroes during War of Independence of Northern Brazil from Dutch domination in 17th century.

No.	Name	Rating	Builders	Laid down	Launched
F6	*Barreto Menezes*	NF	Ilha Vianna,	1941	Feb., 1945
F2	*Felipe Camarao*	NF		1941	Jul., 1942
F3	*Henrique Dias*	CV	Rio de Janeiro	1941	26 Aug., 1942

Corvettes (Rated as *Corvetas* and *Mineiros*).

CANANÉA. 1952, *Brazilian Navy, Official.*

CABEDELO
CAMOCIM
CANANÉA
CARAVELAS
CARIOCA

Displacement :	552 tons (780 tons *full load*)
Dimensions :	188½ × 25½ × 8 (*mean*) feet
Guns :	1—4 inch (*Cabedelo*, 2—3 inch), 4—20 mm. AA.
Mines :	50
Machinery :	2 sets vertical triple expansion by Thornycroft. I.H.P. : 2,200 = 15 kts. (exceeded on trials)
Oil fuel :	86 tons
Complement :	67

Notes.—Built at Rio as minelayers and minesweepers but subsequently rated as corvettes. Names are taken from the environs of Rio.

Pendant Nos.	Name	Laid down	Launched
C 4	*Cabedelo*	1938	Oct., 1939
C 3	*Camocim*	1938	Sep., 1939
C 2	*Cananéa*	6 Nov., 1937	Oct., 1939
C 5	*Caravelas*	1938	Oct., 1939
C 1	*Carioca*	6 Nov., 1937	1938

Submarine Chasers (*Caça-submarinos*).

5 "G" Class.

GRAJU (ex-*PC* 1236)
GRAUNA (ex-*PC* 561)
GUAJARA (ex-*PC* 607)
GUAPORE (ex-*PC* 544)
GURUPI (ex-*PC* 547)

Displacement :	280 tons (400 tons *full load*)
Dimensions :	170 (*w.l.*) 173½ (*o.a.*) × 23 × 7½ feet
Guns :	1—3 inch dual purpose (*Gurupi* and *Guaiba* 2—3 inch), 1—40 mm. AA., 3—20 mm. AA., 4 D.C.T.
Machinery :	Diesel. 2 shafts. B.H.P. : 3,750 = 22 kts.
Oil fuel :	60 tons
Complement :	59

Notes.—Built by Defoe Boat & Motor Works, and acquired from U.S. Navy in 1942-43. *Grajau* launched, 24 April, 1943. Steel. Pendant Nos. are G 7, G 8, G 5, G 1 and G2, respectively. Named after rivers. *Goiana* (ex-*PC* 554), *Guaiba* (ex-*PC* 604) and *Gurupa* (ex-*PC* 605) scrapped 1952.

Submarine Chasers (Motor Launches).

6 "P" Class (CS).

PIRANHA. 1950, *Official.*

PIRAJU
PIRAMBU
PIRANHA
PIRAPIA
PIRAQUE
PIRAUNA

Displacement :	130 tons
Dimensions :	128 × 19½ × 6 feet
Guns :	1—40 mm., 3—20 mm.
A/S weapons :	30 D.C.
Machinery :	Diesel. B.H.P. : 890.
Speed :	20 kts.

Notes.—All launched 1947-48 Built at Rio. Wooden construction. Built to replace "J" class, which had been hard worked and were scrapped in 1951. Pendant Nos. P 1 to P 6.

Coastal Patrol Vessels

3 New Construction

Machinery : Sulzer engines. H.P. : 1,080

Note.—The construction of three coastal patrol vessels has been undertaken on Brazilian account in the Netherlands.

Coast Guard Vessels

Notes.—Negotiations for the building in the Netherlands of 10 vessels for the Brazilian Coast Guard are at present going on.

River Monitors (*Monitores*)

1940, *Official.*

PARAGUASSÚ (*ex-Victoria*)

Builders :	Rio
Launched :	22 Dec., 1938
Displacement :	430 tons
Dimensions :	146½ × 34½ × 5 feet
Guns :	1—4·7 inch, 2—3·4 inch howitzers, 2—47 mm., 4 M.G.
Machinery :	2 sets triple expansion, by J. S. White & Co., Ltd., Cowes. I.H.P. : 1,100 = 13 kts.
Boilers :	2, of 3-drum type
Oil fuel :	40 tons
Complement :	71

Note.—In Matto Grosso Flotilla. Pendant No. P 3.

Added 1950 courtesy J. Meister.

PARNAIBA

Builders :	Rio
Laid down :	11 June, 1936
Launched	Sep., 1937
Completed :	Nov., 1937
Displacement :	620 tons
Dimensions :	180½ (*o.a.*), 178½ (*pp.*) × 33½ × 5 feet (*max.* draught)
Guns :	1—6 inch, 2—3·4 inch howitzers, 2—47 mm., 4 M.G.
Armour :	3" side and partial deck protection
Machinery :	2 sets vertical triple expansion by Thornycroft. 2 shafts. I.H.P. : 1,300 = 12 kts.
Boilers :	2, of 3-drum type, working pressure 250 lbs.
Oil fuel :	70 tons
Complement :	90

Note.—In Matto Grosso Flotilla. Pendant No. P 2.

River Gunboat (*Aviso*).

1953, *Brazilian Navy, Official.*

OIAPOQUE (*ex-Amapo*)

Builders :	Thornycroft
Launched :	1907
Displacement :	195 tons
Dimensions :	130 (*pp.*), 137 (*o.a.*) × 18 × 6 feet
Guns :	2—3 pdr., 2 M.G.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 450 = 14 kts.
Boiler :	1 Babcock watertube
Coal :	51 tons
Complement :	51

Notes.—In Matto Grosso Flotilla. River gunboat *Amapá* was scrapped in 1952.

Surveying Vessels (*Navios Hidrográficos*).

RIO BRANCO. 1952, *Brazilian Navy, Official.*

RIO BRANCO (*ex-Ruth, ex-Margaret*)

Builders :	Thornycroft
Launched :	1914
Displacement :	896 tons
Dimensions :	185 (*pp.*), 200 (*o.a.*) × 32 × 10½ feet
Guns :	2—6 pdr.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,000 = 15 kts.
Coal :	200 tons
Complement :	91

Note.—The corvette (former minesweeper) *Jaceguai* (ex-H.M.S. *Fairfield*), employed as a surveying vessel, was scrapped in 1952, and the surveying vessel *Aspirante Nascimento* was scrapped in 1953.

Destroyer Depot and Repair Ship.

(*Torpedeiros Depot and Navio Tender*).

BELMONTE (*ex-Palmares, ex-German Valisia*)

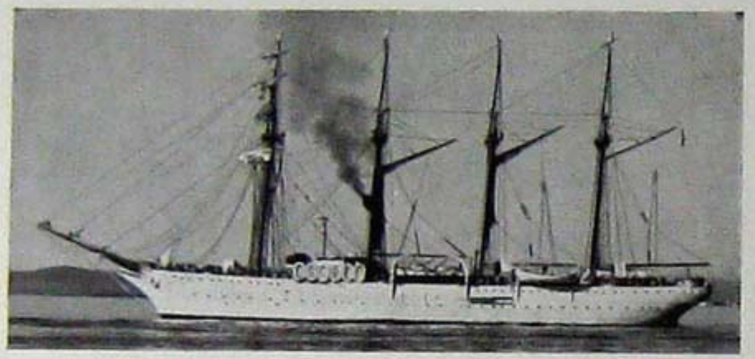
Builders :	Rostock
Launched :	1912
Measurement :	5,227 tons gross (6,500 tons *deadweight*)
Dimensions :	364½ × 51 × 13 feet
Guns :	4—4.7 inch, 6—57 mm.
Machinery :	Triple expansion. I.H.P. : 2,700 = 10 kts.
Complement :	338

Training Ships (*Navios-Escolas*).

GUANABARA (*ex-German Albert Leo Schlageter*)

Builders :	Blohm & Voss, Hamburg
Launched :	31 Oct. 1937
Displacement :	1,634 tons
Dimensions :	265½ (*pp.*), 295½ (*o.a.*) × 39½ × 15½ (*mean*), 16½ (*max.* feet)
Guns :	2 M.G.
Sail area :	21,530 sq. ft.
Machinery :	M.A.N. auxiliary Diesels. B.H.P. : 700 = 10 kts.
Fuel :	48 tons
Complement :	(original) 289, including 200 midshipmen

Notes.—Ex-German sail training ship. Sister of United States Coast Guard training ship *Eagle*. Purchased from U.S.A.



1952, *R. M. Scott*

ALMIRANTE SALDANHA

Builders :	Vickers Armstrongs, Ltd., Barrow
Launched :	19 Dec. 1933
Displacement :	3,325 tons
Dimensions :	262 (*pp.*), 307½ (*o.a.*) × 52 × 18½ feet (*mean draught*)
Guns :	4—4 inch, 1—3 inch AA., 4—3 pdr., 1—13 mm. AA., 2 M.G.
Tubes :	1—21 inch
Total sail area :	25,990 sq. ft.
Machinery :	Auxiliary Diesel engine. B.H.P. : 1,400 = 11 kts. (12 kts. reached on trials)
Radius of action :	12,000 miles
Complement :	356 + 100 midshipmen and cadets

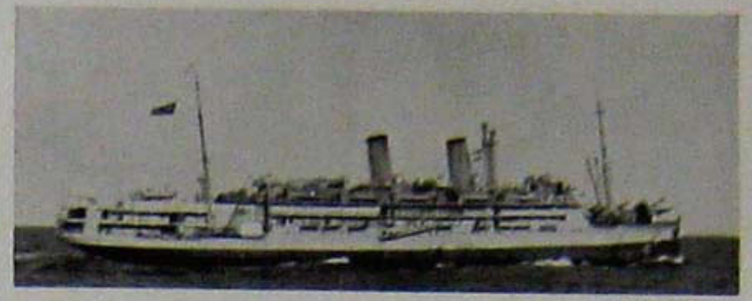
Notes.—Cost £314,500. Instructional minelaying gear is included in equipment.

ALBATROS (*ex-Wishbone*)

Dimensions :	82½ × 17½ × — feet
Machinery :	Diesel Engine. B.H.P. : 85 for auxiliary propulsion.
Sail Area :	3,000 square feet.

Note.—British auxiliary schooner yacht sold to the Brazilian Navy as a training ship. Employed as Naval College Training Yacht. Ballast (lead keel) : 28 tons.

Transports (*Navios-Auxiliares*).

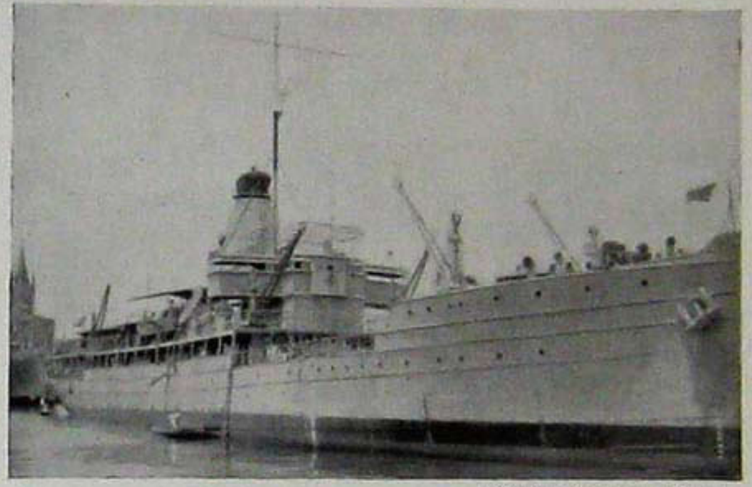


1950, *Official*

DUQUE DE CAXIAS (*ex-Orizaba*)

Launched :	1918
Displacement :	11,130 tons
Dimensions :	423 × 60 × 15½ feet
Machinery :	Geared turbines. S.H.P. : 8,500 = 18 kts.
Complement :	400

Note.—This vessel was badly damaged by fire on July 31, 1946



1953, *Brazilian Navy, Official.*

ALMIRANTE FRONTIN (*ex-Itassuce*)

Launched :	1912
Displacement :	3,600 tons *full load*
Dimensions :	288 × 43 × 13½ feet
Machinery :	2 sets triple expansion. 2 shafts. I.H.P. : 1,800 = 10 kts.
Boilers :	2
Coal	375 tons

Note.—Acquired in 1943. Pendant No. V 3.

JOSÉ BONIFACIO (*ex-Itapema*)

Builders :	Ailsa S.B. Co., Troon
Launched :	1909
Displacement :	1,300 tons
Dimensions :	270 × 42 × 14 feet
Guns :	2—4 inch, 2—6 pdr.
Machinery :	Triple expansion. I.H.P. : 540 = 9 kts.
Complement:	152

Oilers *(Navios-Tanques)*

New Construction.—Two oilers and two water tankers are building at the arsenal in Rio.

COMANDANTE GARCIA D'AVILA (ex-YO 71)

Displacement :	1,400 tons
Dimensions :	176½ × 32 × 15 feet
Machinery :	One Fairbanks Morse Diesel Engine, 5 cylinders, 2 cycle. B.H.P. : 500

Notes.—Purchased from U.S. Navy in 1947.

1950, *Official.*

ILHA GRANDE (ex-*Silver Star Park*)

Builders :	West Coast Shipbuilders Ltd. (U.S.A.)
Launched :	1943
Displacement :	13,256 tons
Dimensions :	441½ × 57 × 27½ feet
S.H.P. :	2,500 = 11 kts.
Boilers :	2 (Combustion Engineering Co. of New York)
Cargo capacity :	8,935 tons
Complement :	100

Note.—Ex-U.S.A. AO. Manned by Brazilian Navy—11 officers, 15 petty officers and 74 ratings.

2 "R" Class.

RIJO. 1950, *Official.*

RIJO (ex-*Gualula, ex-AOG* 28) **RAZA** (ex-*Klaskanine, ex-AOG* 63)

Displacement :	2,228 tons
Dimensions :	217½ × 37 × 7 feet
Machinery :	B.H.P. : 850 = 9 kts.
Capacity :	1,500 tons
Complement :	41

Notes.—Both built at East Coast Shipyards, Bayonne, N.J., U.S.A. U.S.M.C. type TI-M-A2.

Oilers—*continued.*

POTENGI

Builders :	Papendrecht
Launched :	16 Mar., 1938
Displacement :	600 tons
Dimensions :	175½ (pp.) 178½ (o.a.) × 24½ 6 feet.
Machinery :	Diesel engines, 2 shafts, B.H.P.: 550 = 10 kts.
Oil :	450 tons
Complement :	19

Note.—Employed in Matto Grosso Flotilla on river service. The oiler *Novais de Abreu* was scrapped in 1953.

Seagoing Tugs *(Rebocadores).*

TRIDENTE. 1950, *Official.*

TRIDENTE **TRITÃO** **TRIUNFO**

Displacement :	835 tons
Dimensions :	133½ (w.l.), 143 (o.o.) × 34 × 13 feet
Machinery :	G.M. Diesel-electric. H.P. : 1,500 = 13 kts.

Notes.—All built by Levingstone S.B. Co. and launched 1944. Ex-U.S. *ATRs.* Pendant Nos *Tridente*, R 2, *Tritão*, R 1.

ANIBAL MENDONÇA (ex-*Times, ex-St. Keyne*)

Launched :	1919
Displacement :	570 tons
Dimensions :	135 × 30 × 14½ feet
Guns :	2—3 pdr.
Machinery :	I.H.P. : 1,200 = 12 kts. (present best speed, 10 kts.)
Coal :	240 tons
Complement :	45

Note.—*Heitor Peraigão* and *Muniz Freire* were scrapped in 1952.

LAURINDO PITTA **LOMBA**

Displacement :	514 tons
Dimensions :	130 × 26 × 15 feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 850 = 11 kts.

Notes.—*Laurindo Pitta* was built by Vickers. Launched 1910.

River Tugs

MARIO ALVES. 1952 *Brazilian Navy, Official.*

MARIO ALVES

Displacement :	280 tons
Dimensions :	116½ × 22½ × 11 feet
Guns :	2 M.G.
Speed :	12 kts.
Complement :	38

Notes.—In Amazon Flotilla. Launched 1913. Formerly classed as in lighthouse tender (*navios pharoleiros*). Sister ship *Tenente Lohmeyer* was scrapped in 1953.

ANTONIO JOÃO. 1952, *Brazilian Navy, Official.*

ANTONIO JOÃO

Displacement :	80 tons
Dimensions :	75½ × 17½ × 6½ feet
Machinery :	Fairbanks Morse Diesel Engine, 6 cylinder, 2 cycle. B.H.P. : 180.

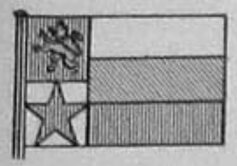
Notes.—Formerly classed as *aviso*. General utility craft for river service.

BULGARIA

Flags.

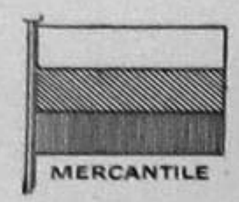
Note that the red of the flag is crimson.

▭ = Red. ▭ = White. ▨ = Green. ▭ = Yellow.



ENSIGN

Jack : A white flag with a green saltire and superimposed over all the Cross of St. George.



MERCANTILE

Treaty Notes.

Strength of fleet is restricted by Peace Treaty to 7,250 tons.

Personnel

3,500 officers and ratings. (maximum authorized by Treaty)

Destroyer.

Added, 1951.

ZHELYEZNYAKOV (*ex-Petrovski, ex-Korfu*)

Displacement :	1,350 tons *standard* (1,600 tons *full load*
Dimensions :	303½ × 29½ × 9 feet
Guns :	3—3·9 inch, 2—37 mm. AA.
Machinery :	Turbine. S.H.P. : 29,000 = 26 kts.
Oil fuel :	390 tons

Notes.—Ex-Russian Zhelyeznyakov transferred 1950. Built at Nikolaiev. Launched 1917. Completed 1925.

Patrol Vessels.

RILA and another vessel

Displacement :	200 tons

Notes.—Both launched 1941

BELOMORETZ (*ex-French C 27*) **CHERNOMORETZ** (*ex-C 80*)

Displacement :	77 tons
Guns :	1—47 mm., 2 M.G.
Machinery :	3 sets of 220 B.H.P. standard petrol motors, totalling 660 B.H.P. = 17 kts.
Fuel :	9 tons
Endurance :	700 miles at 10 kts.
Complement :	26

Notes.—Former submarine chasers built in the United States in 1917-18. Both purchased from France in 1922

Motor Torpedo Boats.

No. 5 (*ex-S 163*) **No. 6** (*ex-S 164*) **No. 7** (*ex-S 165*) **No. 8** (*ex-S 166*)

Displacement :	57 tons (65 tons *full load*)
Guns :	2—20 mm.
Tubes :	2—21 inch
Machinery :	3 sets Diesel motors. B.H.P. : 2,850 = 34 kts.
Complement :	16

Notes.—Former German Schnellboote. Built by Werft Gusto, Holland (1942). Existence of following motor torpedo boats is doubtful

No. 3 (*ex-S 201*) **No. 4** (*ex-S 202*)

Displacement :	35 tons
Dimensions :	70 × 20 × 4 feet
Guns :	1—20 mm.
Tubes :	2—21 inch
Machinery :	3 Rolls Royce petrol motors. B.H.P. : 3,000 = 45 kts.
Complement :	9

Notes.—British Power Boat type.

No. 2

Displacement:	60 tons
Dimensions :	92 × 14½ × 5½ feet
Guns :	1—20 mm. AA.
Tubes :	2—21 inch
Machinery :	3 Mercedes-Benz motors. B.H.P. : 3,150 = 34 kts.
Complement :	18

Notes.—Former German Schnellboote. Built by Lurssen, Vegesack. Launched 1939. No. 1 was lost while in German hands during war.

Minesweepers.

DERZKI **KHRABRI** **STROGI**

Displacement :	100 tons
Dimensions :	126½ × 13½ × 8½ feet
Guns :	2—47 mm., 1 M.G.
Machinery :	1 shaft. Designed H.P. : 2,000 = 26 kts. (actual *max.* 18 kts.)
Boilers :	Du Temple
Coal :	27 tons
Complement :	23

Notes.—Creusot boats. Built in sections by Schneider, Châlon-sur-Saône, in France, reassembled at Varna, 1907-08. Originally torpedo boats with 2-18 inch tubes. Reported to be re-fitted for minesweeping.
Six motor launches equipped for minesweeping are reported to have been acquired from Soviet Navy. These are believed to be air service tenders abandoned by the Germans in their retreat from the Black Sea.

Auxiliary Sail Training Vessels.

ASSEN

Displacement :	240 tons
Guns :	2—65 mm., 1 M.G.
Machinery :	H.P. : 120 = 7 kts.

Notes.—Launched 1912. Refitted 1933-34.

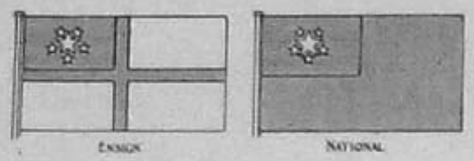
KAMCIA

Speed :	10 kts.

Notes.—Launched 1898. Refitted 1925.

BURMA

Flags.



Administration.

The Burmese Navy was formed on the Declaration of Independence, 4 Jan., 1948.

The Burma R.N.V.R. was formed in June, 1940.

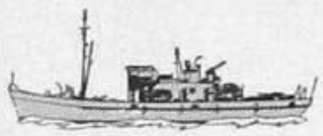
Chief of Naval Staff : Commander Than Pe.
Military Attaché in London : Lieut.-Col. Ba Han

Naval Bases

The main base is U.B.S. " Ratanabon " at Rangoon. Smaller bases at Akyab and Mergui.

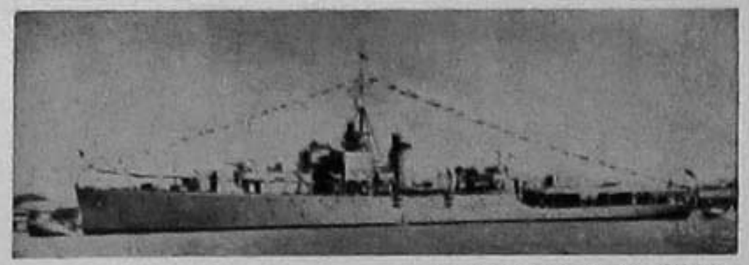
Silhouettes.

MAYU



MMS 197, 201

Frigate.



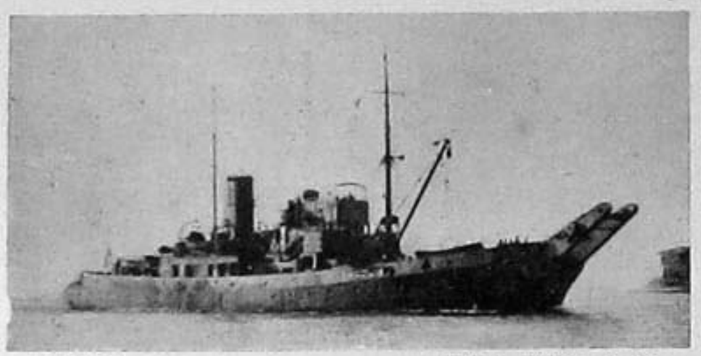
Added 1950, Burmese Navy, Official.

MAYU (ex-H.M.S. *Fal*)

Builders :	Smith's Dock Co., Ltd., South Bank-on-Tees
Laid down :	20 May, 1942
Launched :	9 Nov., 1942
Completed :	2 July, 1943
Displacement :	1,460 tons
Dimensions :	283 (pp.), 301½ (o.a.) × 36½ × 12 feet
Guns :	2—4 inch D.P., 4—40 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 19 kts.
Boilers :	2, of 3-drum type
Fuel :	440 tons
Complement :	140

Note.—" River " class frigate acquired from Great Britain in 1947.

Boom Defence Vessel.



" BAR' ' Class. 1945, *J. W. Kennedy, Esq.*

BARSTOKE

Builders :	Wm. Simons & Co., Ltd., Renfrew
Laid down :	28 Oct., 1940
Launched :	9 Jul., 1941
Completed :	28 Aug., 1941
Displacement :	730 tons
Dimensions :	173¾ (o.a.) × 32½ × 9½ feet
Guns :	1—3 inch AA.
Machinery :	Triple expansion. I.H.P. : 850 = 11·75 kts.
Boilers :	2 S.E.
Complement :	32

Notes.—On charter from Great Britain. At Rangoon.

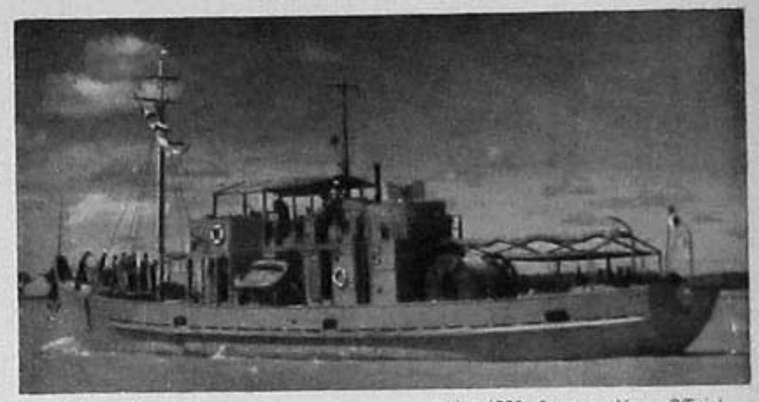
Gunboats.

INLAY. 1950, *Burmese Navy, Official.*

	INDAW	INLAY	INMA	INYA
Displacement	381 tons			
Dimensions :	154½ (o.a.) × 22½ × 7¾ feet			
Guns :	2—25 pdr., 2—20 mm. AA.			
Machinery :	Paxman Ricardo. 12 T.P.M. Vee-type Diesels. 2 shafts. B.H.P. : 1,000 = 13 kts.			
Complement :	39			

Note.—*LCG(M)* type vessels—landing craft, gun, medium.

Motor Minesweepers.



MMS 201. *Added 1950, Burmese Navy, Official.*

	MMS 197	MMS 201
Displacement :	255 tons	
Dimensions :	105 (pp.), 119 (o.a.) × 13 × 9½ feet	
Guns :	12—20 mm. AA., 2 M.G.	
Machinery :	Diesel. B.H.P. : 500 = 10 kts.	
Complement :	20	

Notes.—Wood. Transferred from British Navy at Rangoon in Oct. and Nov. 1946, respectively.

260R

Motor Launches.

ML 391	ML 414	ML 415	ML 418	ML 437

Displacement : 65 tons
Dimensions : 112 × 18½ × 4½ feet
Guns : 1—40 mm. AA., 3—20 mm. AA., 4 M.G.
Machinery : 2 Hall-Scott Defender engines. B.H.P. : 1,200 = 20 kts.
Complement: 18

Notes.—On loan from Great Britain. At Rangoon.

1942, *Official.*

ML 1104

Builders John I. Thornycroft & Co. Ltd., Southampton.

Dimensions : 76½ (o.a.) × 13½ × 4½ feet
Guns : 1—3 pdr., 1—20 mm. AA.
Machinery : Three RL/6 Thornycroft Diesels. B.H.P. : 650 = 14 kts.

Note.—Fitted for minesweeping.

ML 1102	ML 1103

Dimensions : 76½ × 13½ × 4½ feet
Machinery : Two RL/6 Thornycroft Diesels and one RY/12 petrol engine. B.H.P. : 780 = 16 kts.

Patrol Vessels.

No. 1	No. 2	No. 3	No. 4	No. 5	No. 6

Machinery : Perkins engines. H.P. : 130

Note.—Six patrol vessels for Burma will be built at the yard of G. de Vries Lentsch at Alphen a.d. Rijn, Netherlands.

Motor Gunboats.

11 Ex-British H.D.M.L. Type.

MGB 1467. *Added* 1950, *Burmsee Navy, Official.*

MGB 1272	MGB 1304	MGB 1369	MGB 1462	MGB 1477
MGB 1299	MGB 1306	MGB 1456	MGB 1467	MGB 1478
				MGB 1486

Displacement : 46 tons (54 tons *full load*)
Dimensions : 72 (o.a.) × 15½ × 5½ feet
Guns : 2—20 mm. AA. except MGB 1456, 1—2 pdr., 1—20 mm. AA.
Machinery : Diesel. 2 shafts. B.H.P. : 320 = 12 kts.

Notes.—Ex-British harbour defence motor launches of same numbers.

10 Ex-United States C.G.C. Type.

MGB 104 1952, *Burma Navy, Official.*

MGB 101	MGB 103	MGB 105	MGB 107	MGB 109
MGB 102	MGB 104	MGB 106	MGB 108	MGB 110

Displacement : 45 tons (*light*), 80 tons (*full load*)
Dimensions : 83½ × 15½ × 5 feet
Guns : 2—40 mm. Bofors QF.
Machinery General Motors Diesels. 2 shafts. B.H.P. : 1,600 = 11 kts. (2 stroke, 6 cylinder, 2 engines on each shaft, tandem geared, 1 L.H. and 1 R.H. drive. 400 H.P. each)
Complement : 15

Notes.—Launched 1938-42. These ten ex-United States Coast Guard Cutters were transferred to Burma under the Mutual Defense Assistance Program (Officially announced 8 Nov., 1950). These shallow draught patrol craft were converted for use as small gunboats to assist the Burmese Government in patrolling the navigable river systems of Burma. They were brought forward from the Coast Guard Reserve Fleet and rehabilitated at Curtis Bay, Maryland. Refitting included conversion from petrol to diesel machinery and modified armament. Acquired from the United States Navy, 15 Feb. 1951.

River Gunboats.

SHWEPAZUN 1952, *Burmese Navy, Official.*

SABAN **SHWEPAZUN.**

Displacement : 98 tons
Dimensions : 94½ × 22 × 4½ feet
Guns : 6—20 mm. AA.
Machinery : Crossley ERL.—6 Diesel. B.H.P. : 160 = 12 kts.
Complement : 32

Note.—Converted inland-water-transport passenger-service craft.

No. 51	No. 5

Guns : 1—20 mm. AA.

Motor Fishing Vessels.

MFV 1520	MFV 1523	MFV 1549

Length : 90 feet

MFV 138	MFV 220

Length : 61½ feet

MFV 950

Length : 45 feet

Note.—There are also 3 smaller craft for harbour and river services.

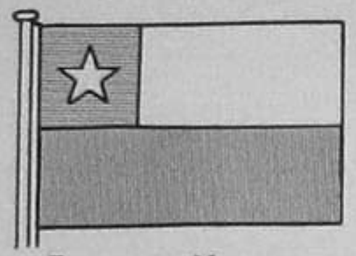
Tugs.

TANAC 184	TANAC 205	TANAC 214
TUSA 233		

Notes.—All four on loan from Great Britain. At Rangoon.

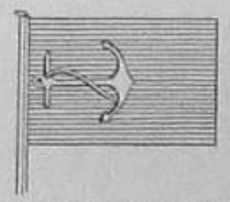
CHILE

Flags.



ENSIGN and MERCANTILE.

PRESIDENT.



MINISTER OF MARINE

JACK.

COMMANDER-IN-CHIEF OF THE FLEET

VICE ADMIRAL COMMANDING.

VICE ADMIRAL SUBORDINATE

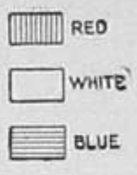
REAR-AD. COMMANDING

REAR-AD. SUBORDINATE

COMMODORE COMMANDING

COMMODORE SUBORDINATE

SENIOR OFFICER



RED

WHITE

BLUE

Administration

Minister of National Defence : Guillermo Barrios Tirado.

Chief of Staff of National Defence : Vice-Admiral Horacio de la Fluente.

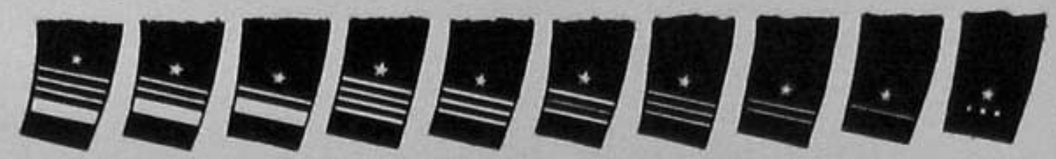
Commander-in-Chief of the Navy : Vice-Admiral Carlos Torres Hevia.

Chief of the Naval Staff : Vice-Admiral Gustavo Carvallo.

Chief of the Chilean Naval Mission, Washington : Vice-Admiral Immanuel Holger.

Naval Attaché, London : Captain R. Caldéron Silva.

Uniforms.



Almirante — Vice Almirante. — Contra-Almirante. — Capitan de Navio. — Capitan de Fragata. — Capitan de Corbeta. — Teniente 1º — Teniente 2º — Subteniente. — Guardia Marina

Corresponding British or U.S. ranks :—

Admiral	*Vice-Admiral*	*Rear-Admiral*	*Captain.*	*Commander.*	*Lieutenant Commander*	*Lieutenant (Senior)*	*Lieutenant (Junior).*	*Sub-Lieutenant.*	*Midshipman.*

The rank of Almirante is held only by the Commander-in-Chief. Other branches the same with colour as follows :

Supply Officers,	white.
Surgeons,	red.
Chaplains,	purple.

Naval Bases

TALCAHUANO. Two dry docks, 614 × 87 × 30½ feet and 800 × 116 × 36 feet respectively.
One small floating dock, 216 × 42 × 15 feet.
Torpedo, Submarine, and other Training Establishments here.

VALPARAISO. One small steel floating dock privately owned, 314 × 65 × 21 feet (4,500 tons capacity)
Staff College and Naval Academy for training of Executive and Engineering branches here, also schools for Communications, Gunnery, Coast Artillery, Navigation, etc.

Personnel.

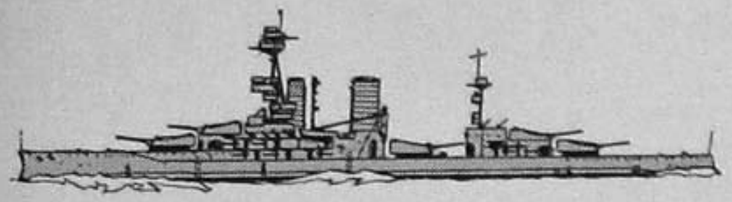
13,000 officers and men.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 94 vessels of 189,004 tons *gross*.

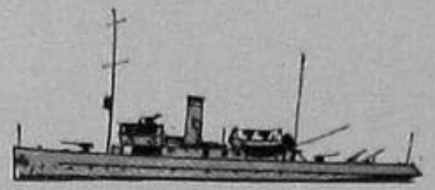
2592

* Scale : 150 ft. = 1 inch.

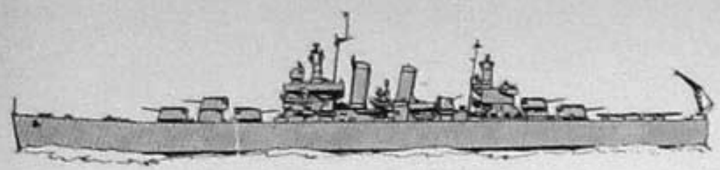


ALMIRANTE LATORRE

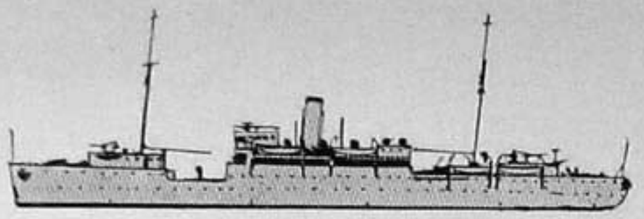
CASMA *Class.*



OROMPELLO.

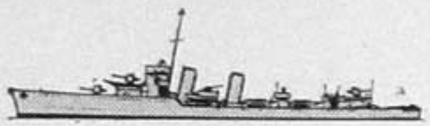


CAPITAN PRAT, O'HIGGINS

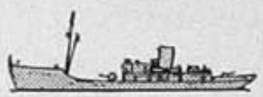


ARAUCANO

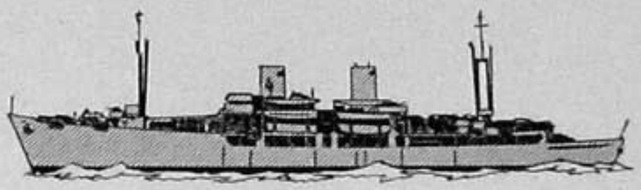
VIDAL GORMAZ.



SERRANO *Class.**

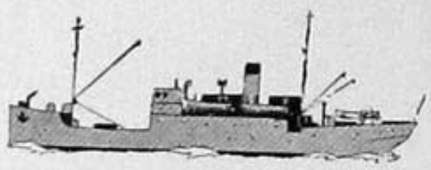


AGUILA*

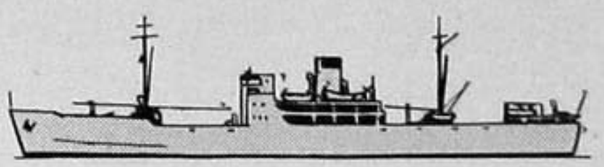


PRESIDENTE ERRAZURIZ, PRESIDENTE PINTO.

BAQUEDANO *Class.*



MICALVI

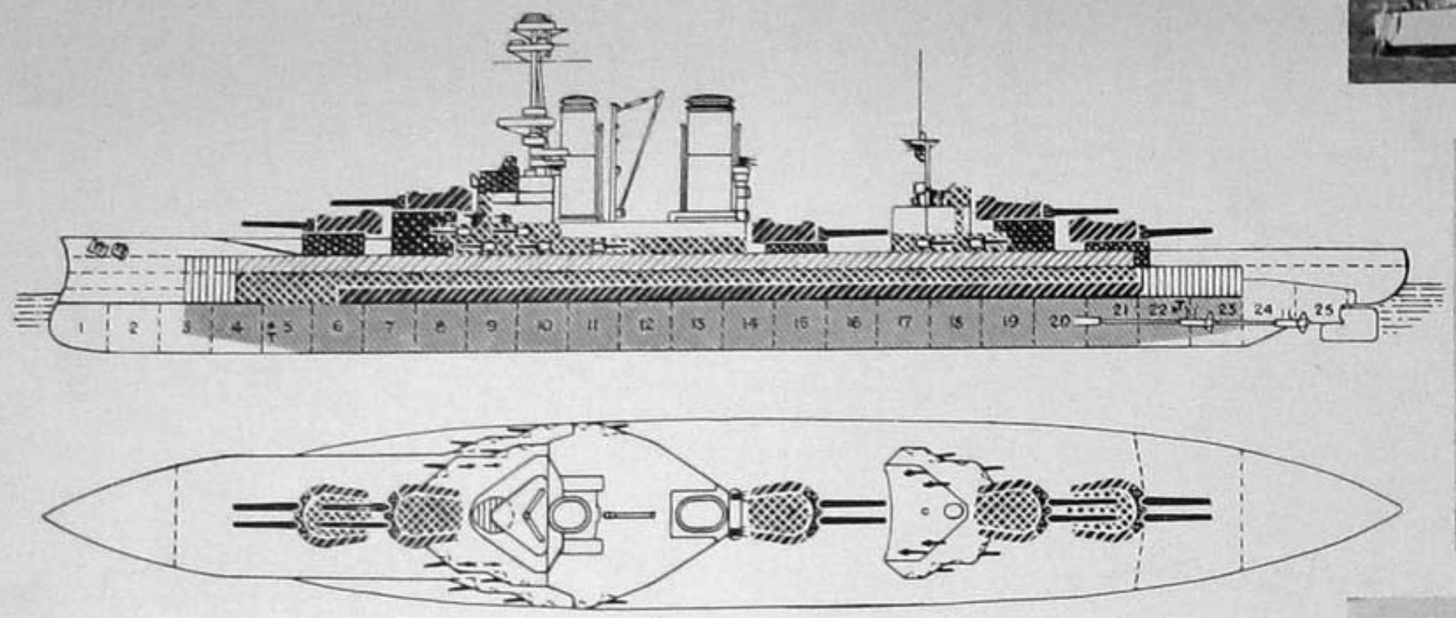


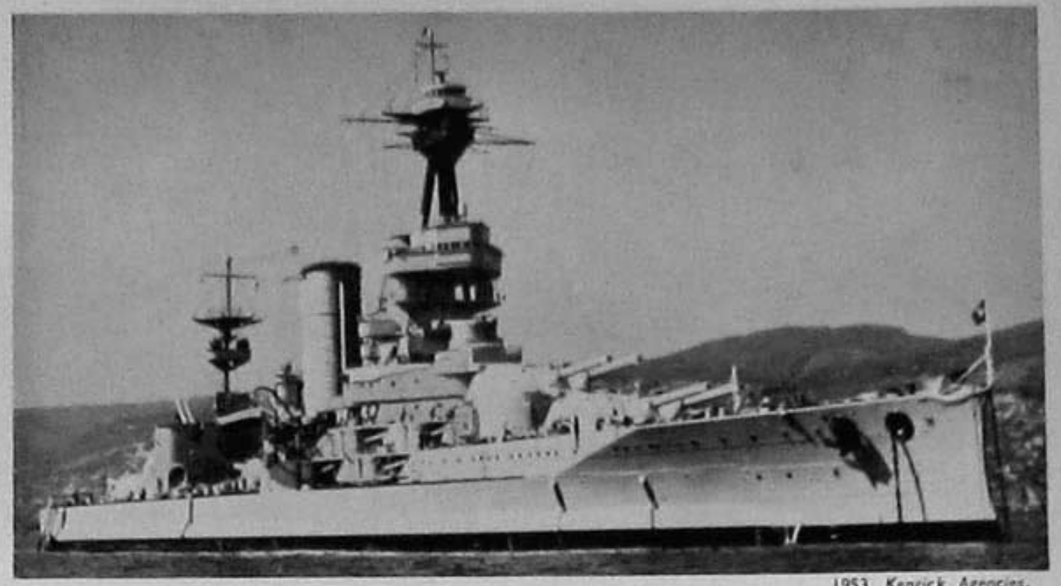
ANGAMOS.

CHILE—Battleship

ALMIRANTE LATORRE (ex-British *Canada*, ex-Chilean *Almirante Latorre*, ex-*Valparaiso*)

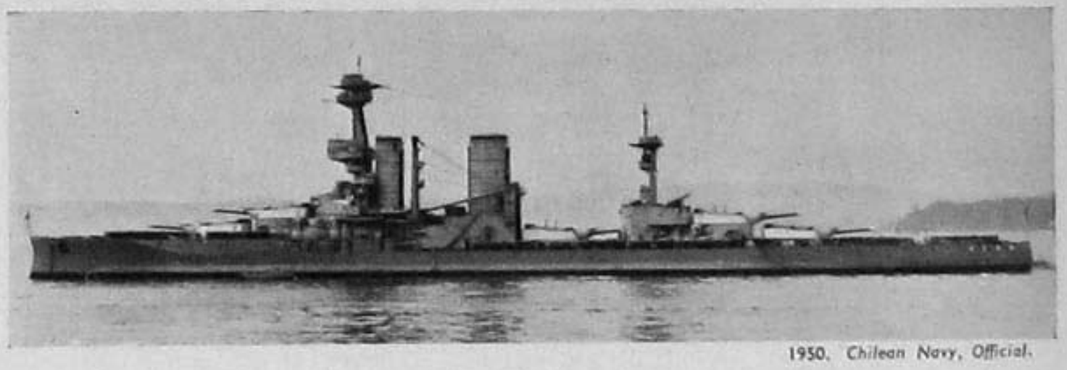
Builders :	Armstrong
Laid down :	Nov., 1911
Launched :	Nov., 1913.
Completed :	Sept., 1915.
Displacement :	28,950 tons *standard* (over 32,000 *full load*).
Dimensions :	Length : 625 (pp.), 661 (o.a.) feet. Beam : 92½ feet. Draught : 28½ (*mean*), 32 (*max.*) feet
Guns (Armstrong) :	10—14 inch, 45 cal., 14—6 inch, 50 cal., 4—4 inch AA, 4—3 pdr., 18—20 mm. AA. 18 M.G.
Armour (*Vertical*) :	10" Lower belt, 7" Middle belt, 4½" Upper belt, 6"-4" Belt (ends), 4½", 4" B'lkh'ds (f. & a.), 16" Batteries, 10" Barbettes, 10½"-9" Gunhouses, 3" C.T. base, 11" C.T. (6"-3" hood), 6" Fore com. tube, 6" Torpedo C.T., 6" Aft. com. tube (Bulges)
Armour (Decks) :	1" Shelter (over casemates), 1" Fo'c'sle (over battery), 1½" Upper (outside battery), 1½" Main (aft), 1" Protective : lower 2" (forward) 4" (aft)
Anti-Torpedo Protection :	2"-1½" Bulkheads ; (mags., &c.) Sections, 6-8, 15, 19-21 on plans.
Machinery :	Parsons geared turbines. 4 shafts. Designed S.H.P. : 37,000 = 22.75 kts.
Boilers :	21 Yarrow
Oil fuel :	4,300 tons
Radius :	4,400 miles at 10 kts.
Complement :	1,176





1953, *Kenrick Agencies.*

1951, *Klaus Wernick.*



1950, *Chilean Navy, Official.*

General Notes.—Begun for Chile as the *Valparaiso*, her name being altered afterwards to *Almirante Latorre*. Purchased for British Navy on outbreak of War in 1914 and renamed *Canada*. Additional protection, etc., added during War is said to have raised her displacement to over 30,000 tons. Re-acquired by Chile in April, 1920. Arrived at Devonport in summer of 1929 to be refitted in the dockyard under a special contract with new machinery supplied by Vickers-Armstrongs, Ltd. Bulges were fitted, and masts and bridgework underwent slight modifications. The maintopmast was raised to 60 feet, and controls fitted at the ends of the upper bridge ; searchlights removed from bridge ; new turbines and oil fuel only installed. She returned to Chile early in 1931. Extensively refitted 1948-49. Her sister ship, *Almirante Cochrane*, was purchased for British Navy in 1917, renamed *Eagle*, and modified for service as an aircraft carrier, which was lost in 1942.

Gunnery Notes.—14-inch have a range limited only by *max.* visibility. Originally had 16—6 inch, but the 2—6 inch on upper deck, abeam of after funnel, were removed and ports plated over. Reason for removal was because guns were only a few feet from muzzle of "Q" turrent 14-inch guns on extreme bearing and were damaged by blast. Anti-aircraft guns are mounted on after superstructure.

Armour Notes.—Barbettes 6" and 4" as they descend behind belts.

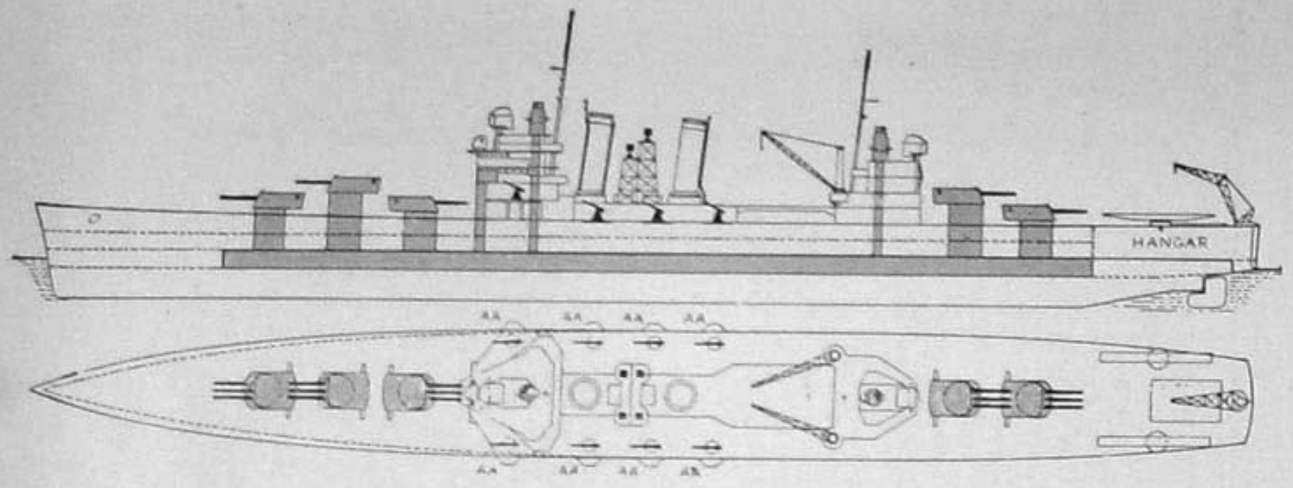
Historical Note.—Latorre, who afterwards rose to flag rank, was Captain of the Chilean ironclad *Cochrane* at the Battle of Angamos, Oct. 8, 1879.

2582

2 " Capitan Prat " Class.

CAPITAN PRAT (ex-*Nashville*) **O'HIGGINS** (ex-*Brooklyn*)

Displacement :	*Capitan Prat* : 10,000 tons *standard* (12,500 tons *full load*) *O'Higgins* 9,700 tons *standard* (13,000 tons *full load*)
Dimensions :	Length : 608½ (o.a.) feet. Beam : 69 feet. Draught : 24 feet (max.)
Guns :	15—6 inch, 47 cal. ; 8—5 inch, 25 cal. ; 28—40 mm. AA. ; 24—20 mm. AA.
Aircraft :	4 (normal capacity) see notes.
Armour :	4"-1½" belt, 3"+2" decks, 5"-3" turrets, 8" C.T.
Machinery :	Westinghouse geared turbines. 4 shafts. S.H.P. : 100,000 = 32.5 kts.
Boilers :	8 Babcock & Wilcox Express type.
Oil fuel :	2,100 tons.
Radius :	14,500 miles at 15 kts.
Complement :	883 to 975 (peace).

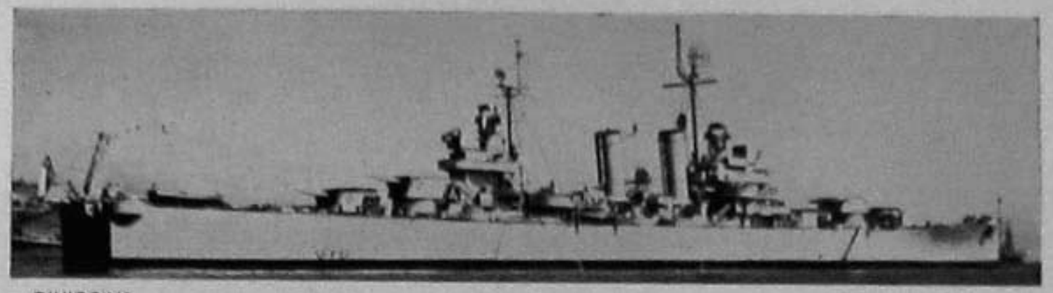


Note to Plan.—Superstructure of *O'Higgins* since reduced, bulges added and beam increased.

General Notes.—Formerly CL 43 and CL 40, respectively of the U.S. " Brooklyn " Class. Purchased from the United States in 1951 at a cost representing 10 per cent. of their original cost ($37,000,000) plus the expense of reconditioning them.

Hangar Notes.—The hangar in the hull right aft could accommodate 6 aircraft if necessary together with engine spares and duplicate parts, though 4 aircraft is the normal capacity. The existence of this hangar resulted in a very wide and nearly flat counter and high freeboard aft and also gave the after guns higher command. Above the hangar two catapults were mounted as far outboard as possible, and a revolving crane was placed at the stern extremity overhanging the aircraft hatch.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Capitan Prat	New York S.B. Co.	24 Jan., 1935	2 Oct., 1937	25 Nov., 1938
O'Higgins	New York Navy Yard	12 Mar., 1935	30 Nov., 1936	18 Jul., 1938

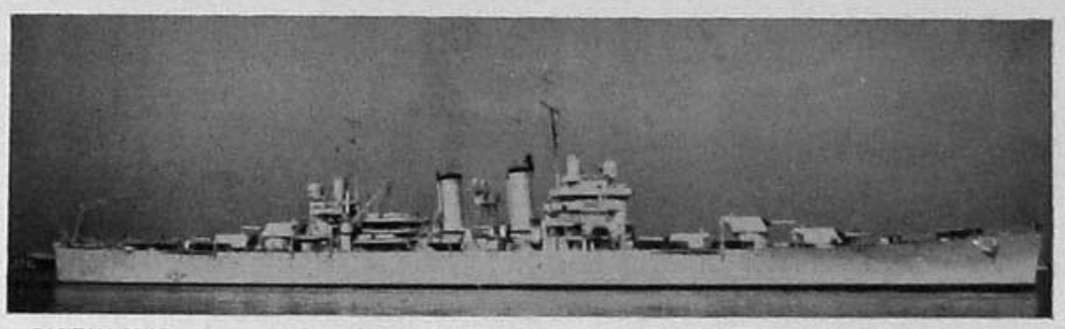


O'HIGGINS

1953, *Kenrick Agencies*

CAPITAN PRAT

1953, *Kenrick Agencies*



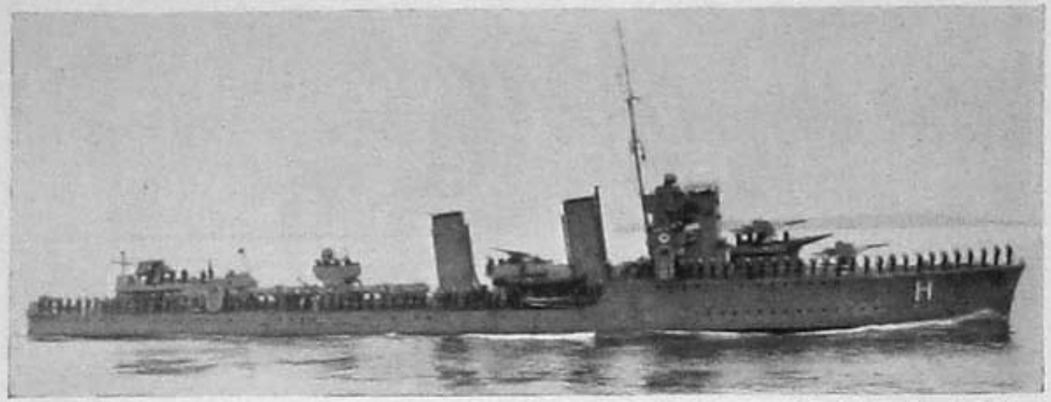
CAPITAN PRAT

Added 1951, U.S. Navy, Official.

CHILE—Destroyers and Frigates

Destroyers.

VIDELA — Added 1953, *Official.*



HYATT. (*Riquelme* still retains her mainmast). — 1950, *Chilean Navy, Official.*

ALDEA **HYATT** **ORELLA** **RIQUELME** **SERRANO** **VIDELA**

Displacement :	1,090 tons *standard* (1,430 tons *full load*)
Dimensions :	288¼ (*pp.*), 300 (*o.a.*) × 29 × 12¾ feet (*max.*)
Guns :	3—4.7 inch, 1—3 inch AA., 3—20 mm. AA., 2 M.G.
Tubes :	6—21 inch, in triple deck mountings.
Machinery :	Geared turbines Parsons (l.p.), Brown-Curtis (h.p. and cruising). 2 shafts. S.H.P. : 28,000 = 35 kts.
Boilers :	3 Thornycroft 3-drum type
Oil fuel :	320 tons
Complement :	130

General Notes.—Fitted for carrying mines. Plating is galvanised throughout, and the heavy hull scantlings reduce the stresses to even less than those allowed by British Admiralty practice. All exceeded their contract speed on trials. They have exceptionally good accommodation for vessels of their size, and are adapted for service in a wide range of climates. All laid down June—July 1927 by John I. Thornycroft & Co., Ltd., Southampton, and launched 29 Nov., 21 July, 8 Mar., 28 May, 25 Jan. and 16 Oct. 1928, respectively

Appearance Notes.—All to be distinguished by initial letter of name painted on bows.

Frigates.

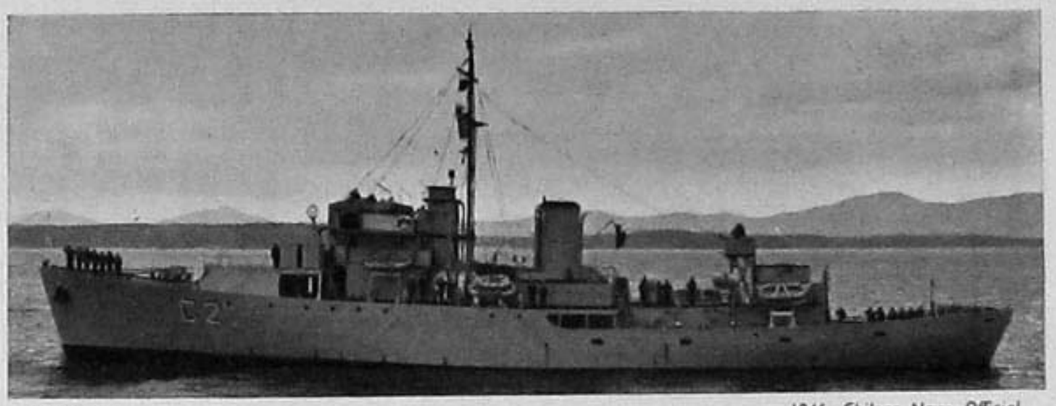
ESMERALDA. — 1953, *Klaus Wernick.*

BAQUEDANO (*ex-Esmeralda* ex-*Glace Bay*, ex-*Lauzon*), **COVADONGA** (*ex-Seacliff*, ex-*Megantic*) **IQUIQUE** (*ex-Joliette*)

Displacement :	1,445 tons (2,125 tons *full load*)
Dimensions :	301 × 37 × 13 feet
Guns :	2—4 inch AA., 10—20 mm. AA.
Machinery :	2 sets triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers :	2, of 3-drum type
Oil fuel :	646 tons
Complement :	140

General Notes.—Launched 26 Apr. 1944, 8 July1941, and 12 Nov. 1943, respectively. Purchased from Royal Canadian Navy, 1946.

Appearance Notes.—Distinguished by initial letters of their names : B—*Baquedano* ; C—*Covadonga* ; I—*Iquique.*



CHIPANA — 1946, *Chilean Navy, Official.*

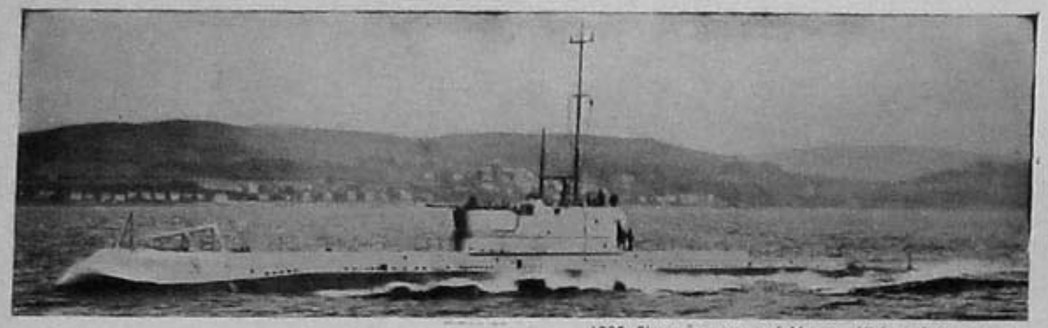
CASMA (*ex-Stellarton*, April 27, 1944) **CHIPANA** (*ex-Strathroy*, June 15, 1944) **PAPUDO** (*ex-Thorlock*, May 15, 1944)

Displacement :	980 to 1,060 tons (1,340 tons *full load*)
Dimensions :	193 (*pp.*), 205 (*o.a.*) × 33¼ × 14¼ feet (*max.*
Guns :	1—4 inch, 6—20 mm. AA.
Machinery :	Triple expansion. I.H.P. : 2,750 = 16.5 kts.
Boilers :	2, of 3-drum type
Complement :	66

General Notes.—Launch dates above. Purchased from Royal Canadian Navy, 1946. Rated as *Corbetas*. *Chipana* actually serves as a surveying vessel in place of *Vidal Gormaz*.

Appearance Notes.—Now no C Pendant numbers. Distinguished by initial letters of their names : C—*Casma* ; CH—*Chipana* ; P—*Papudo* .

Submarines.



1930 *Photo, courtesy of Messrs. Vickers-Armstrongs.*

	ALMIRANTE SIMPSON	CAPITAN O'BRIEN	CAPITAN THOMPSON
Displacement	1,412 tons *surface* 2,020 tons *submerged*		
Dimensions :	275 × 28 × 13½ feet		
Guns :	1—4.7 inch		
Tubes :	8—21 inch (6 bow, 2 stern)		
Machinery :	H.P. 3,000 : = 15 kts. (*surface*). H.P. : 1,300 = 9 kts. *submerged*.		
Fuel :	200 tons		
Complement :	54		

Historical Notes.—George O'Brien, one of Chile's earliest naval officers, was killed in action as captain of the frigate *Lautaro*, in the War of Independence. Simpson was one of Lord Cochrane's officers when the latter assumed command of the Chilean Navy in November, 1818 ; he subsequently commanded the Chilean squadron operating on the coast of Peru in 1838-39, defeating the combined Peruvian and Bolivian squadrons at the Battle of Casma in the latter year. Thompson commanded the *Huascar* in the war against Peru and Bolivia from 1879 to 1882, when he was killed in action.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Almirante Simpson	Vickers-Armstrongs, Barrow-in-Furness	15 Nov. 1927	15 Jan. 1929	14 Sep. 1929
Capitan O'Brien		15 Nov. 1927	2 Oct. 1928	19 Jun. 1929
Capitan Thompson		15 Nov. 1927	15 Jan. 1929	24 May 1929

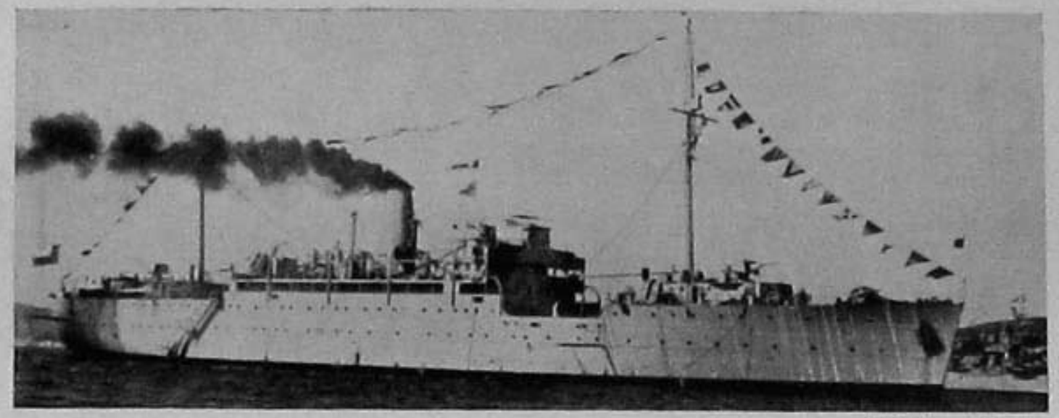
GUALCOLDA.

1933, *Chilean Navy, Official.*

	FRESIA (*H* 6)	GUALCOLDA (*H* 1)	GUALE (*H* 4)	QUIDORA (*H* 5)
Displacement :	335 tons *surface*, 467 tons *submerged*			
Dimensions :	150½ × 15½ × 12½ feet			
Torpedo tubes	4—18 inch (bow)			
Machinery:	2 sets 240 H.P. Nelseco Diesels H.P. : 480 = 13 kts. (*surface*), H.P. : 640 = 11 kts. (*submerged*)			
Endurance :	2,800 miles at 11 kts. on *surface* ; 30 miles at 5 kts. *submerged*			
Fuel :	17½ tons			
Complement :	22			

Notes.—These boats, of *Holland type* (Electric Boat Co. design), were originally *H*20, 13, 18, 19, respectively of the British *H*11-20 group of submarines, built by the Fore River Co., U.S.A., during 1915-17. The Admiralty intended to take them over and equip them with torpedo tubes at the Canadian Vickers Yard at Montreal—provided that these boats could legally be delivered in an unarmed state. The U.S. Government decided the submarines could not leave any U.S. port as long as the United States remained neutral, so all the boats were interned at Boston. They were released on the U.S. declaration of war, 1917. With the approval of the U.S. authorities, the above submarines were ceded to Chile by Great Britain, in part payment for the Chilean warships building in British yards in August, 1914, and appropriated for the British Navy. Names are those of Araucanian heroines, wives of caciques who fought against the Spanish invaders. No longer in service. To be discarded.

Submarine Depot Ship.



1953, *Klaus Wernick.*

ARAUCANO

Builders :	Vickers-Armstrongs, Ltd., Barrow
Laid down :	1 March, 1929
Launched :	22 Oct., 1929.
Completed :	March, 1930
Displacement :	6,438 tons (9,000 tons *full load*)
Dimensions :	390 × 55 × 16½ feet
Guns :	2—4.7 inch, 5—20 mm. AA., 2 M.G.
Aircraft :	1 seaplane
Machinery :	Parsons geared turbines. S.H.P. : 2,400 = 13 kts.
Coal :	670 tons

Notes.—Has accommodation for 585, including crews of attached submarines. Has had a seaplane added to her equipment.

Patrol Vessels.

LEUCOTON.

Added 1949.

	LAUTARO (*ex-U.S.S. ATA* 122)	LIENTUR (*ex-U.S.S. ATA* 200)	LEUCOTON (*ex-U.S.S. ATA* 177)
Displacement :	800 tons		
Dimensions :	143 × 33 × 12 feet		
Guns :	1—3inch A.A., 2—20 mm. A.A.		
Machinery :	Diesel, 2 screws, B.H.P. : 1,500 = 12.5 kts		
Oil fuel :	187 tons		
Complement :	33		

Notes.—Patrol Vessels of the armed tug type. Launched 1944. Built by Levingstone Shipbuilding Co., Orange, Texas, U.S.A.

Training Ship (*Buque Escuela*).

ESMERALDA (*ex-Don Juan de Austria*)

Builders :	Echevarrieta Yard, Cadiz
Displacement :	3,673 tons
Machinery :	Auxiliary Diesel. B.H.P. : 1,400 = 12 kts.

Notes.—Formerly building for Spanish Navy. Transferred to Chile 1953.

Coastguard Vessels (*Escampavias*).

Note.—Most of these vessels are employed on Surveying Service.

MICALVI (*ex-Bostonlincs, ex-Bragi*).

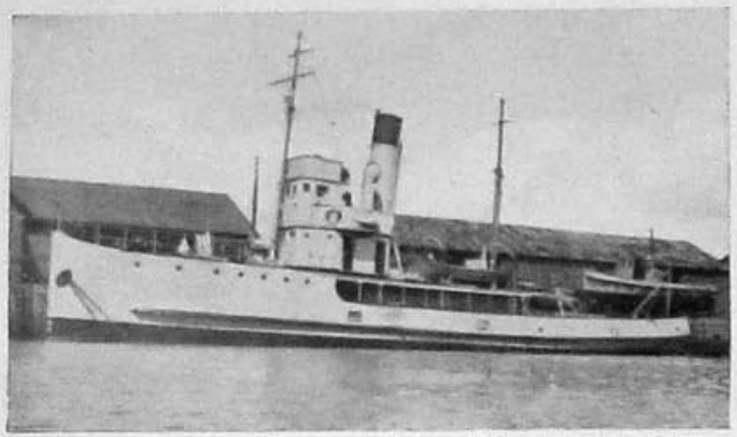
Builders :	Ostsee Werft, Stettin
Launched :	1925
Displacement :	850 tons (612 tons *gross*)
Dimensions :	181½ × 28½ × 11 feet
Machinery :	Triple expansion. I.H.P. : 380 = 9.5 kts.

Note.—Transport.

OROMPELLO (*ex-Bekas*)

Builders :	Maskin och Brobyggnads Co., Helsinki
Completed :	1919
Displacement :	530 tons
Dimensions :	172½ (*o.a.*) × 24½ × 11 (*max.*) feet
Guns :	2—3 inch
Machinery :	2 sets triple expansion. 2 shafts. I.H.P. : 1,400 = 14.5 kts.
Boilers :	3 cylindrical
Coal :	65 tons
Complement :	42

Notes.—Refitted by Messrs. J. Samuel White & Co., Cowes, 1920. Former minelayer. No longer in service.



1938, *Chilean Navy, Official.*

YELCHO

Launched :	1906
Displacement :	230 tons (467 tons *full load*)
Dimensions :	128 × 23 × 9½ feet
Speed :	12 kts.

Landing Craft (*Barcazas*).

ASPIRANTE GOICOLEA — *Added 1949, Official.*

ASPIRANTE GOICOLEA — **ASPIRANTE IZAZA**
ASPIRANTE HOREL — **GUARDIAMARINA CONTRERAS**

Displacement :	743 tons (1,095 tons *full load*)
Dimensions :	196½ (*w.l.*), 203½ (*o.a.*) × 34½ × 7½ feet
Machinery :	Diesel. 2 shafts. B.H.P. : 2,800 = 12 kts.

Notes.—*Ex-LSM* 113, 295, 400, 417. All launched 1944.

EDUARDO LLANOS. — *Added 1949, Official.*

CABO BUSTOS — **GRUMETE DIAZ**
EDUARDO LLANOS — **GRUMETE TELLEZ**
GRUMETE BOLADOS — **SOLDADO CANAVES**

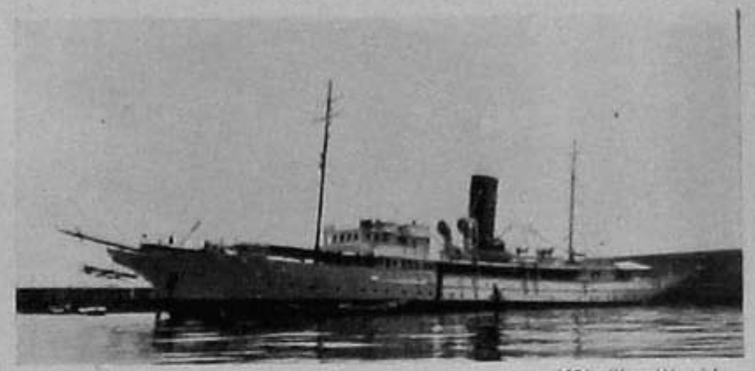
Displacement :	387 tons *full load*
Dimensions :	159 × 23½ × 5½ feet
Machinery :	Diesel. 2 shafts. B.H.P. : 1,320 = 14 kts.

Note.—*Ex-LCI (L)* 877, 878, 1025, 1027, 1072 and another. All launched 1943. Above 10 units are named after personnel killed in action during the war with Peru and Bolivia, 1879-80.

8 of LCP type
22 of LCVP type
2 of LCPL type

Note.—All above 32 vessels of LCP, LCVP and LCPL type purchased from U.S. Navy in 1947.

Tender (*Buque-tender de la Esquela Naval*).



1951, *Klaus Wernick*

VIDAL GORMAZ (*ex-Cynara, ex-Jason*)

Builders :	Day, Summers & Co., Southampton
Launched :	1913
Displacement :	702 tons *standard*
Dimensions :	178 (*w.l.*), 190 (*o.a.*) × 28½ × 14 feet
Machinery :	Quadruple expansion. I.H.P. : 1,200 = 13 kts.
Boilers :	2 cylindrical
Coal :	165 tons

Notes.—Yacht purchased 1940 and adapted for surveying duties by John I. Thornycroft & Co. Ltd., Southampton. Named after the celebrated Chilean hydrographer. In 1953 became tender to ordinary seaman school at Talcuhuano, and classed as *patrullero*.

Oilers.

ALMIRANTE JORGE MONTT

Displacement :	16,500 tons

Note.—Built in France.

MAIPO. — 1948 *Lunn Easten, Esq.*

MAIPO — **RANCAGUA**

Displacement:	7,715 tons (3,800 tons gross
Dimensions :	365 × 49½ × 22½ feet
Guns :	2—4.7 inch, 2 M.G. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 4,800 = 15 kts.
Boilers :	4 S.E.
Oil fuel :	725 tons
Complement :	54

Notes.—Distinguished by initials of names painted on bows. Names are those of actions during the War of Independence—Maipo on 15 April, 1818 ; Rancagua on 1 Oct., 1814.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Maipo	Vickers-Armstrongs, Ltd., Tyne	Mar., 1929	Jan., 1930	Mar., 1930
Rancagua		Mar., 1929	Nov., 1929	Mar., 1930

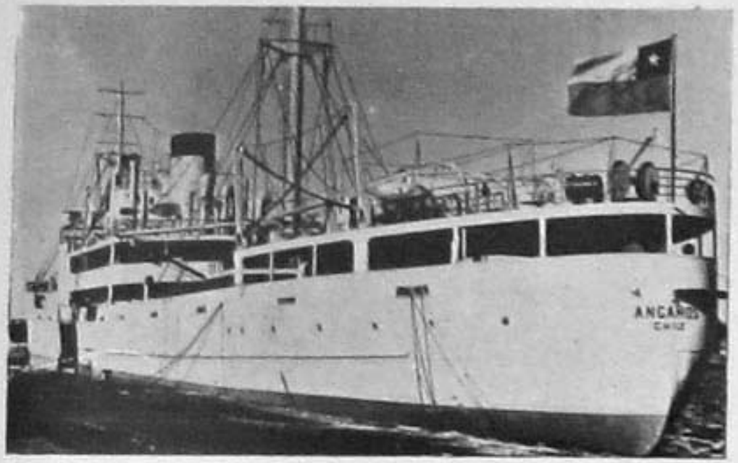
Attack Transports (*Transportes de Ataque*).

PRESIDENTE ERRAZURIZ — 1948, *Official.*

PRESIDENTE ERRAZURIZ (*ex-Xenia, AKA 51, 27 June, 1943*)
PRESIDENTE PINTO (*ex-Zenobia, AKA 52, 6 July, 1943*)

Displacement :	6,744 tons
Dimensions :	425 (*o.a.*) × 58 × 16 (*max.*) feet
Guns :	1—3 inch, 8—40 mm., 16—20 mm. AA.
Machinery :	Turbo-electric, 2 shafts, S.H.P. : 6,000 = 17 kts.
Boilers :	2 Wickes

Notes.—Both built by Walsh-Kaiser. Purchased from U.S. Navy, Nov., 1946. Distinguished by E and P painted on hulls. *Presidente Errazuriz* served as fleet flagship for a time. Launch dates above. Presidente Pinto actually serves as a training ship for midshipmen.



1946, *Chilean Navy, Official.*

ANGAMOS

Built :	Aalborg
Laid down :	5 April, 1940
Launched :	1941
Delivered :	Feb., 1946
Displacement :	3,800 tons
Dimensions :	315 (*pp.*), 343 (*o.a.*) × 46 × 19½ feet
Machinery :	Triple expansion, I.H.P. : 2,200 = 12 kts.
Coal :	575 tons
Complement :	72 + 74 passengers or troops

Historical Note.—Named after the naval victory which, on 8 October, 1879, virtually decided the issue of the war against Peru and Bolivia.

Transports—*continued.*

PILCOMAYO (*ex-Draga*)

Launched :	1931
Measurement :	2,364 tons gross, 1,241 tons net.

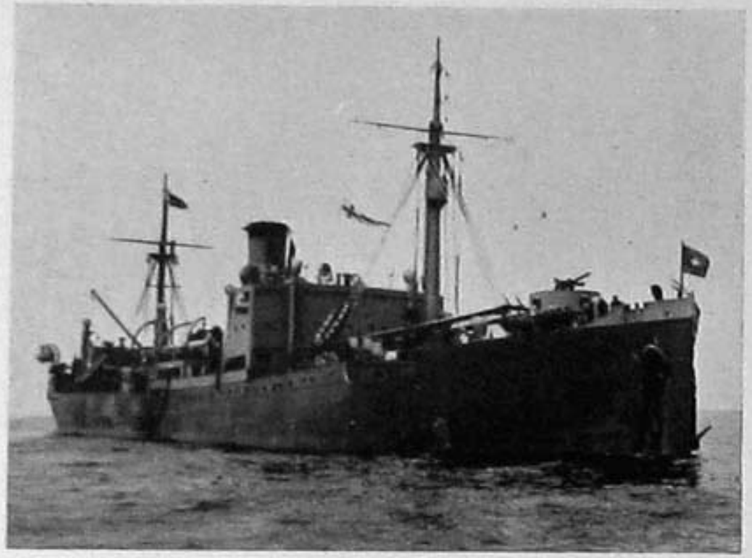
Note.—Ex-Draga Fiscal *Pilcomayo*. Used as a collier.

1940, *Chilean Navy, Official.*

ABTAO (*ex-Sorun*)

Displacement :	691 tons standard
Dimensions :	225 × 32½ × 18 feet
Machinery :	Triple expansion, I.H.P. : 1,185 = 10 kts.
Boilers :	2 cylindrical

Note.—Built at Oslo. Launched 1912. No longer in service.



1948, *Official.*

MAGALLANES (*ex-Gundulic, ex-Siam City, ex-Winfried*)

Launched :	1911
Displacement :	6,650 tons
Dimensions :	409 (*pp.*), 422 (*o.a.*) × 55 × — feet
Guns :	2—3 inch, 8—20 mm. AA.
Machinery :	Quadruple expansion. Speed : 10 kts.
Boilers :	3 cylindrical
Coal :	1,100 tons

Notes.—Acquired in July, 1945, and named after the first circumnavigator of the world.

Seagoing Tugs (*Remolcadores de Alta Mar*).

1 "Huemul" Class.

HUEMUL (*ex-Vilumilla*)

Displacement :	320 tons
Dimensions :	100 (*w.l.*) × 22 × 13 feet
Machinery :	Triple expansion, I.H.P. : 650 = 12 kts.
Boiler :	1
Coal capacity :	35 tons

Notes.—Built at Valdivia and launched 1937. Another of the same type, *Contramaestre Brito* (*ex-Pelantaro*) was lost.

5 "Cabrales" Class

GALVARINO — 1953 *Kenrick Agencies*

CABRALES (24 Oct., 1929)
COLOCOLO
GALVARINO
JANEQUEO (1930)
SOBENES (23 Oct., 1929)

Displacement :	790 tons
Dimensions :	126½ × 27 × 12 (*mean*) feet
Machinery :	Triple expansion, I.H.P. : 1,050 = 11 kts.
Coal capacity :	130 tons

Notes.—All built by Bow, McLachlan & Co., Paisley. Launch dates above. These ships are classed as coastguard vessels.

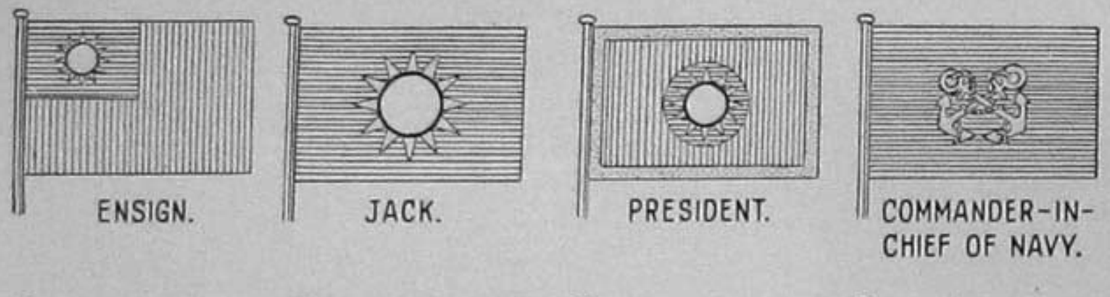
PILOTO SIBBALD

Builders :	Bow, McLachlan & Co., Paisley
Launched :	1916
Displacement :	1,100 tons
Dimensions :	141½ × 28½ × 11 feet
Machinery :	Triple expansion, 2 screws, I.H.P. : 1,200 = 11.5 kts
Boilers :	2 cylindrical
Coal capacity	145 tons
Complement :	18

Notes.—Possesses fire-fighting and salvage equipment. During 1916-19 this vessel was taken over by the Royal Navy, in which she served as the Stoic. Re-acquired by Chile in 1920. Classed as coastguard vessel.

CHINA (NATIONALIST)

Flags.



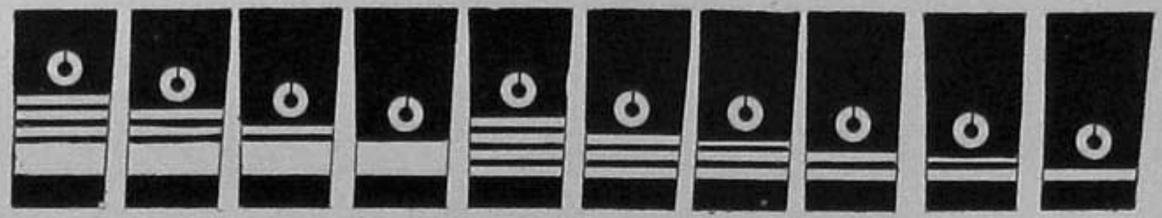
Administration.

Commander in Chief, Naval Forces : Vice-Admiral C. C. Ma.
Chief of Naval Staff : Rear-Admiral T. T. Wang.

Personnel.

About 50,000 officers and ratings.

Uniforms.



Colour between stripes : *Engineers*, None ; *Medical Officers*, Scarlet ; *Supply Officers*, Blue ; *Naval Constructors*, Pink ; *Navigating Officers*, Light Indigo Blue ; *Ordnance*, Pink ; *Wireless*, Mauve ; *Bandmasters*, Orange ; *Judge Advocates*, Grey ; *Hydrographic Officers*, Purple ; *Civilian Officers*, White. All these branches *without* the curl or emblem over top stripe except Engineers. *Aviation*, no colour between stripes, but gold eagle replaces emblem above stripe.

Division of Chinese Warships.

Division of Chinese warships reported to be as follows :

Nationalists	*Communists*
7 Destroyers	1 Light Cruiser
14 Frigates	9 Frigates
3 Gunboats	5 Gunboats
12 Minesweepers	1 Patrol Escort (PCE)
4 Patrol Vessels	2 Submarine Chasers (SC)
1 Minelayer	1 Minesweeper
11 L.S.T.s.	17 River Gunboats
8 L.S.M.s.	40 Motor Torpedo Boats
6 L.C.I.s.	1 Coastal Minelayer
1 Transport	14 L.S.T.s.
2 Oilers	14 L.S.M.s.
	15 L.C.I.s.
	2 L.C.U.s. (ex-L.C.T.s.)

Chinese Nationalist ships' names are prefaced by "R.C.N." (Republic of China Navy). Chinese Nationalist naval vessels are assigned a " block " number which is painted on the bow and serves as a means of identification and classification.

Ex-Japanese Ships.

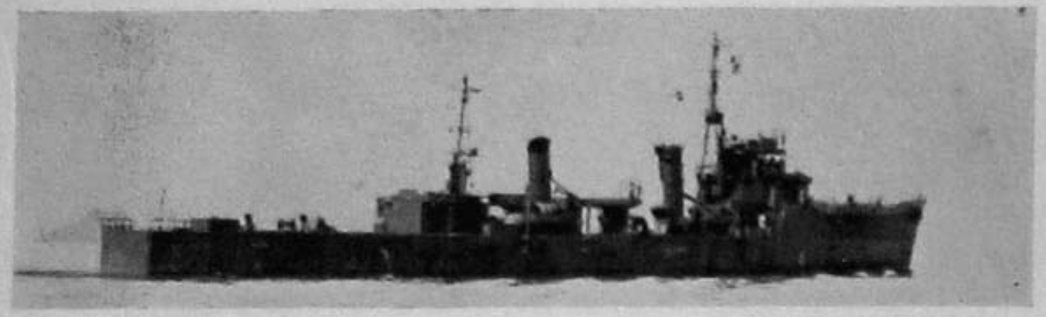
Most of the particulars given of ex-Japanese ships are those obtaining at the end of the Second World War.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 322 vessels of 613,821 tons *gross*.

Destroyers

7 Ex-Japanese Types



HWA YANG — *Added 1953, Hajime Fukaya.*

HWA YANG (ex-*Tsuta*, 2 Nov. 1944) — **IS SIN YANG** (ex-*Hatsume*, 1945)

Displacement:	1,580 tons
Dimensions :	302½ (p.p.), 321¼ (w.l.), 328 (o.a.) × 30½ × 11 feet
Guns :	3—5 inch, 24—25 mm. (*Sinyang* 2—4·7 inch, 8—25 mm. AA. 4—13 mm. AA., 4 M.G.
Tubes :	4—24 inch (quadrupled). 4 torpedoes. D.C. : 60 (*Hwa Yang* 36)
Machinery :	Turbines. S.H.P. : 19,000 = 27·8 kts.
Boilers :	2

Notes.—Modified *Matsu* class. Launch dates above. *Hwa Yang* built at Yokosaka, laid down 31 July 1944 and completed 8 Feb. 1945, recently in Pescadores Islands, inoperative and greatly deteriorated under Nationalist control.

HENG YANG (ex-*Kaede*) — **HWEI YANG** (ex- *Sugi*)

Displacement :	1,530 tons
Dimensions :	302½ (p.p.), 321½ (w.l.), 328 (o.a.) × 30½ × 11 feet
Guns :	3—5 inch , 24—25 mm. (31—25 mm. AA. guns can be mounted)
Tubes :	4—24 inch (quadrupled
Machinery :	2 Turbines. S.H.P. : 19,000 = 27·8 kts.
Complement :	206

Notes.—*Matsu* class. Both launched 1944. Above represents original Japanese armanent. Reported both ships now rearmed.

TAN YANG (ex-*Yukikaze*)

Launched	1939
Displacement :	2,490 tons
Dimensions :	388 (o.a.) × 35½ × 12½ feet
Guns :	4—5 inch, 24—25 mm., 4—13 mm.
Tubes :	8—24 inch
Machinery :	Geared turbines. S.H.P. : 52,000 = 35 kts. (designed)
Boilers :	3 Kampon

Notes.—These seven ex-Japanese destroyers were taken over by the Chinese Navy in 1947 in the distribution of surrendered enemy tonnage. All are now Nationalist. Original armament and particulars are as above. Unarmed in 1949, and in very bad state, able neither to steam nor steer. This applies to several other ex-Japanese ships. Some are reported to be rearmed with 4 inch guns taken over from Japanese coastal defence points.

Added 1953, Hajime Fukaya.

FEN YANG (ex-*Yoitsuki*)

Builders :	Uraga Dock Company, Limited
Laid down :	25 Aug. 1943
Launched :	25 Sep. 1944
Completed :	31 Jan. 1945
Displacement :	2,701 tons *standard* (3,435 tons *full load*)
Dimensions :	413¾ (p.p.), 433 (w.l.), 440½ (o.a.) × 38 × 13½ feet
Guns :	8—4 inch AA., 43—25 mm.
Tubes :	4—24 inch (quadrupled), 8 torpedoes. D.C. : 72
Machinery :	2 turbines. S.H.P. : 52,000 = 33 kts.
Boilers :	3 Kampon

Note.—" Akizuki " class.

Added 1953, Hajime Fukaya.

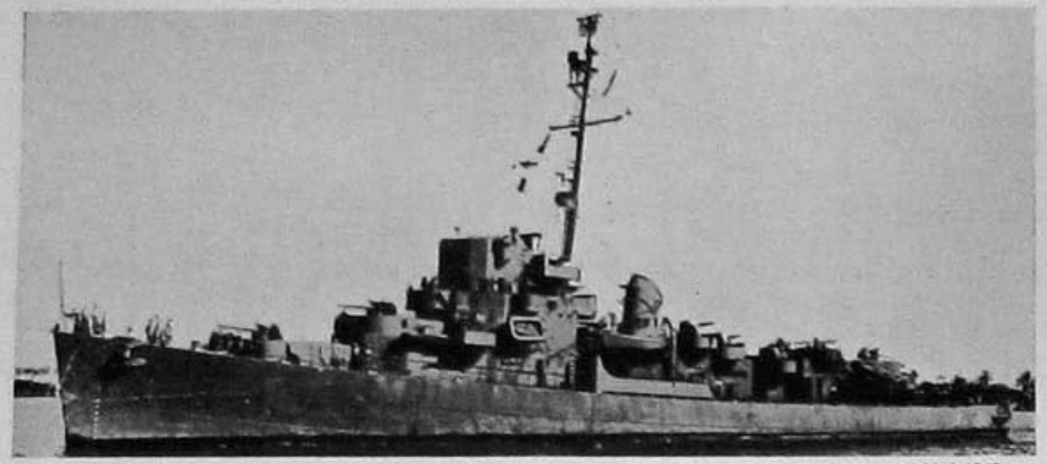
SHEN YANG (ex-*Nomikaze*)

Builders :	Maizura
Laid down :	7 Nov. 1921
Launched :	24 June 1922
Completed :	11 Nov. 1922
Displacement :	1,350 tons *standard* (1,700 tons *full load*)
Dimensions :	320 (p.p.), 327½ (w.l.), 336½ (o.a.) × 29½ × 11½ feet
Guns :	1—4·7 inch, 20—25 mm. AA., 8—13 mm. M.G.
Tubes :	2 Kaiten
Machinery :	Geared turbines. S.H.P. : 22,000 = 34 kts. (original) now 28 kts.
Boilers :	3 Kampon

Notes.—Modified " Minekaze " class. Thin fore-funnel as first boiler was removed. Four-strutted mainmast. Raked down stern. Damaged in Northern waters in 1944 and repaired and reconstructed as " Kaiten " (Human Torpedo) Carrier.

Frigates.

6 Ex-U.S. Escort Destroyer Types.



TAI-KANG. *Added* 1949.

21 TAI KANG (*ex-U.S.S. Wyffels*) **22 TAI PING** (*ex-U.S.S. Decker*)

Displacement :	1,150 tons (1,430 tons *full load*)
Dimensions :	283½ (*w.l.*), 289½ (*o.a.*) × 35 × 10½ feet
Guns :	3—3 inch, 50 cal. dual purpose, 4—40 mm. AA., 11—20 mm. AA., 9 D.C.T.
Machinery :	Diesel with electric drive. 2 shafts. H.P. : 6,000 = 21·5 kts.
Complement :	212

Notes.—*Tai-Ping* and *Tai-Kang*, both launched in 1943, built at Philadelphia and Boston Navy Yards, respectively, and delivered to China in 1946. Now Nationalist.

26 TAI CHAO (*ex-U.S.S. Carter*) **25 TAI HU** (*ex-U.S.S. Bostwick*)
23 TAI HO (*ex-U.S.S. Thomas*) **24 TAI SANGT** (*ex-U.S.S. Breeman*)

Displacement :	1,210 tons (1,900 tons *full load*)
Dimensions :	306 (*o.a.*) × 36½ × 12 (*max.*) feet
Guns :	4—3 inch, 50 cal. d.p., 4—40 mm. AA., 10—20 mm. AA. and D.C.T.
Tubes :	3—21 inch in triple mounting
Machinery :	Diesel electric. 2 shafts. B.H.P. : 6,000 = 21 kts. (19 kts. in service)
Complement :	220

Notes.—Transferred 31 Dec. 1948. Now Nationalist. Another ship of this type, ex-Jordon, reported acquired. Two underwent overhaul in Japanese yards, late 1952.

1 Ex-Japanese Minelaying Type.

75 YUNG CHING (*ex-Soji-u*)

Displacement :	750 tons
Dimentions :	231 (*pp'*), 240½ (*w.l.*), 246 (*o.a.*) × 26 × 8½ feet
Machinery :	2 Diesels. B.H.P. 3,600
Speed :	20 kts.

Notes.—Japanese prize, acquired in 1947. Nationalist. Formerly rated as a light minelayer, Now rated as DE escort.

Frigates—*continued.*

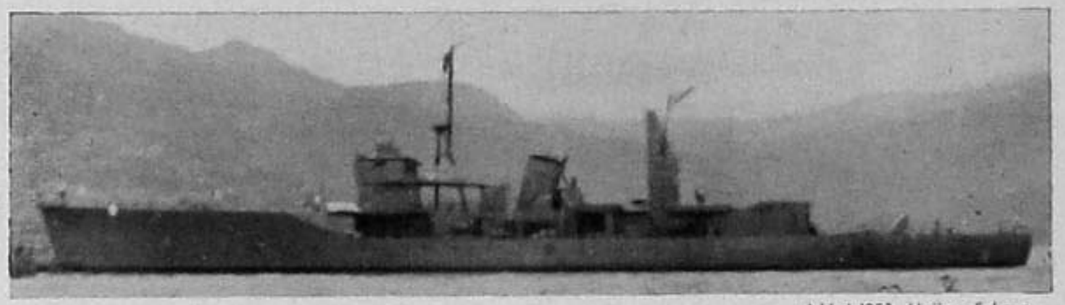
2 Ex-Japanese Escort Destroyer Types.

Added 1953, *Hojime Fukaya.*

76 CHENGAN (*ex-Heueh Fen, ex-Yashiro*)

Builders :	Hitachi (Sakurajima Works)
Laid down :	8 Nov. 1943
Launched :	16 Feb. 1944
Completed :	10 May 1945
Displacement :	1,020 tons
Dimensions :	258½ (*o.a.*) × 30 × 10 feet
Guns :	2—4·7 inch, 6 M.G.
Machinery :	2 Diesels. B.H.P. : 4,200 = 19·5 kts.
Radius :	5,000 miles at 16 kts.
Complement :	150

Notes.—Ex-Japanese Type A or "Mikura" class. *Cheng An* is Nationalist. Sister ship *Hui An* is Communist.



Added 1953, *Hojime Fukaya.*

LIN AN (*ex-Tsushima*)

Builders :	Tsurumi
Laid down :	20 June 1942
Launched :	20 Mar. 1943
Completed :	30 July 1943
Displacement :	1,020 tons
Dimensions :	255 (*o.a.*) × 30 × 10 feet
Guns :	Handed over disarmed
Machinery :	Diesel. 2 shafts. B.H.P. : 4,200 = 19·7 kts.
Radius :	8,000 miles at 16 kts.
Complement :	147

Notes.—Ex-Japanese Type A or "Etorofu" class. Believed fitted for minelaying. *Lin An* is Nationalist. For sister ship *Chang Pai*, see Communist China.

Frigates—*continued.*

1 Ex-Japanese Sloop Type.

1947, *Official.*

63 YI HSIEN (*ex-Yat Sen, ex-Atado*)

Builders :	Kiangnan Dock Co., Shanghai
Launched	1930
Displacement :	1,650 tons
Dimensions :	270 (*o.a.*), 252 (*pp.*) × 34 × 11 feet (*mean*), 12½ feet (*max.*)
Guns :	1—4·7 inch, 5—98 M.G.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 4,000 = 16 kts.
Boilers :	Yarrow
Coal :	280 tons
Complement :	182

Notes.—Ex-Japanese sloop. Now Nationalist.

2 Ex-Canadian Corvette Type

62 KAO-AN (*ex-Chiu Chin, ex-Tillsonburg, ex-Pembroke Castle*) **61 TE-AN** (*ex-Hsi Lin, ex-Orangeville, ex-Hedingham Castle*)

Displacement :	1,100 tons (1,380 tons *full load*)
Dimensions :	252 (*o.a.*) × 36¾ × 15¾ (*max.*) feet
Guns :	1—4 inch, 10—20 mm. AA.
Machinery :	Triple expansion. I.H.P. : 2,800 = 16·5 kts.
Boilers :	2 three-drum type
Oil fuel :	480 tons

Notes.—There is some doubt about status and names of these vessels. Names *Koo-An* and *Te-An* reported in June 1951, but also reported under their former names *Chiu Chin* and *Hsi Lin*.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Koo-An	Ferguson Bros., Ltd.	3 Jun., 1943	12 Feb., 1944	17 Jul., 1944
Te-An	Henry Robb, Ltd.	23 Jul., 1943	26 Jan., 1944	10 May, 1944

Frigates—*continued.*

9 Ex-Japanese Corvette Types.

HEIN AN. *Added 1953, Hajime Fukaya.*

74 CHAO AN (*ex-No. 107*) **HEIN AN** (*ex-No. 205*)
73 JUI AN **SWE AN** (*ex-Ying K'on, ex-No. 67*)
No. 215

Displacement :	810 tons
Dimensions	221½ (*o.a.*) × 28 × 9¼ feet
Guns :	2—4·7 inch, 10—25 mm., D.C. 120
Machinery :	Diesel. 2 shafts. B.H.P. : 1,900 = 16·5 kts.
Radius :	6,500 miles at 14 kts.
Complement :	130

Notes.—Ex-Japanese. Type C or No. 1 Type. Handed over disarmed. *Swe An* (1—4·7 inch, 1—3 inch, 8 M.G.) and *Chao An* are Nationalist *Hein An* built by Nugata Iron Works, laid down 10 May 1944, launched 15 Aug. 1944, completed 30 Oct. 1944

TUNG AN. *Added 1953, Hajime Fukaya.*

72 CHEN AN (*ex-No. 40*) **TSI NAN**
71 TAI AN (*ex-No. 104*) **TUNG AN** (*ex-No. 192*)

Displacement :	900 tons (1,300 tons *full load*)
Dimensions :	228 (*o.a.*) × 28½ × 10 feet
Guns :	See notes.
Machinery :	Turbine. S.H.P. : 2,500 = 17·5 kts.
Boilers :	2 mixed firing
Radius :	4,500 miles at 14 kts.
Complement :	145

Notes.—Ex-Japanese. Type D or No. 2 Type. All handed over disarmed. *Chen An*, 2—4·7 inch, 8 M.G. *Chen An, Tai An, Tung An* are Nationalist *Tung An* built by Mitsubishi, Nagasaki, laid down 5 Dec. 1944, launched 30 Jan. 1945, completed 23 Feb. 1945.

CHINA (NATIONALIST)—Patrol Vessels and Minesweepers

Escort Patrol Vessels.

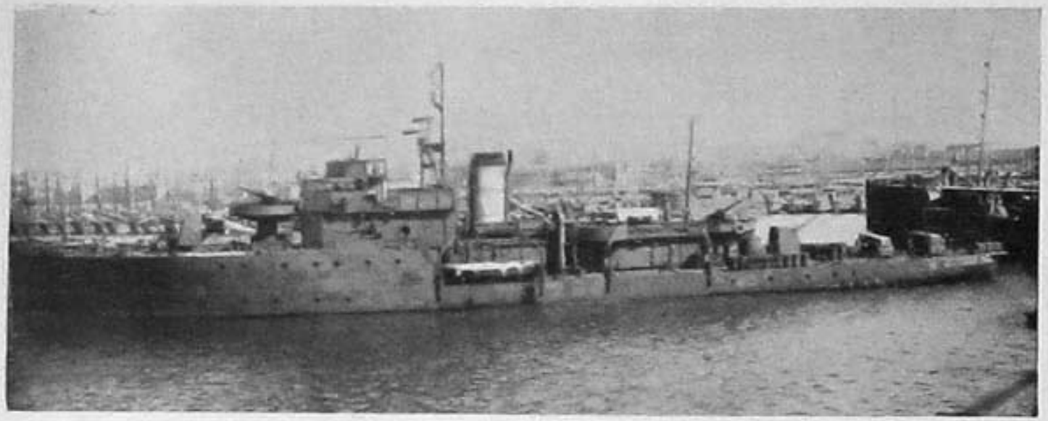
2 Ex-U.S. PCE Type.

YUNG TAI. 1947, *Official.*

42 WEIYUAN (ex-*FCE* 869, 6 Feb., 1943) **41 YUNG TAI** (ex-U.S.S. *FCE* 867, 3 Dec., 1942)

Displacement :	600 tons (903 tons *full load*)
Dimensions :	180 (*w.l.*), 184½ (*o.a.*) × 33 × 9½ feet (*max.*)
Guns :	1—3 inch D.P., 3—40 mm. AA., 6—20 mm. AA., 4 D.C.T.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,800 = 17 kts.

Notes.—Both now Nationalist. Launch dates above.



1947, *Official.*

SIEN NING (ex-Japanese *Okitsu*, ex-Italian *Lepanto*)

Launched :	22 May, 1927
Displacement :	615 tons (848 tons *full load*)
Dimensions :	204 × 28½ × 8½ feet
Guns :	3—3 inch, 2—40 mm. AA., 4—20 mm.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,500 = 13 kts.
Boilers :	2 watertube
Coal :	145 ton
Complement	184

Patrol Vessels.

6 Ex-U.S. PC Type.

84 CHIALING (ex-U.S.S. *PC* 1247) Ex-**PC 490** Ex-**PC 593**

85 HWANGPU (ex-U.S.S. *PC* 492) Ex-**PC 598** Ex-**PC 1579**

Displacement :	280 tons (450 tons *full load*)
Dimensions :	173½ (*o.a.*) × 23 × 10½ (*max.*) feet
Guns :	1—3 inch, 50 cal., 1—40 mm. AA., 5—20 mm. AA.
Machinery :	Diesel. B.H.P. : 2,880 = 20 kts.

Note.—Named ships are Nationalist.

Minesweepers.

12 Ex-U.S. AM Type.

YUNG SHUN. 1947, *Official.*

46 YUNG NING (ex-U.S.S. *Lucid*, June 5, 1943)
50 YUNG FENG (ex-U.S.S. *Prime*)
47 YUNG KIA (ex-U.S.S. *Implicit*, Sept. 6, 1943)
53 YUNG HWO (ex-U.S.S. *Delegate*)
43 YUNG SHENG (ex-U.S.S. *AM*)
51 YUNG CHANG (ex-U.S.S. *Refresh*, April 12, 1944)
44 YUNG SHUN (ex-U.S.S. *Magnet*, June 5, 1943)
45 YUNG TING (ex-U.S.S. *Logic*, April 10, 1943)
52 YUNG CHUN (ex-U.S.S. *Gavia*)
48 YUNG SIU (ex-U.S.S. *Pinnacle*, Sept. 11, 1943)
49 YUNG SHOW (ex-U.S.S. *Pivot*, Nov. 11, 1943)
54 YUNG KANG (ex-U.S.S. *AM*)

Displacement :	625 tons (945 tons *full load*)
Dimensions :	180 (*w.l.*), 184½ (*o.a.*) × 33 × 9½ feet (*max.*)
Guns :	1—3 inch D.P., 3—40 mm. AA., 6—20 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,710 = 14·5 kts.
Complement :	104

Note.—All of AM type acquired from U.S. Navy. Launch dates above. Now all Nationalist.

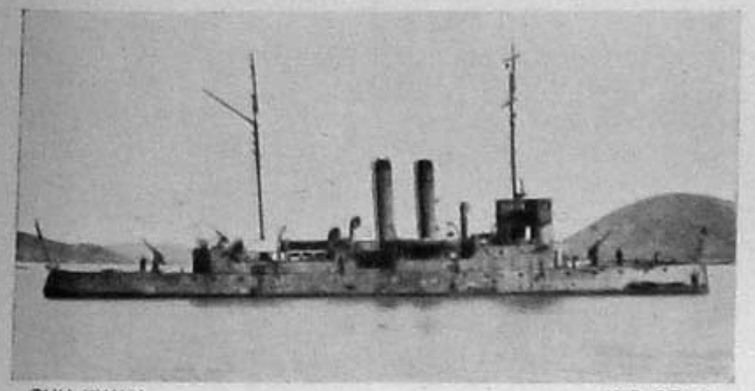
253R

Gunboats.

YUNG HSIANG

Builders :	Kawasaki Co., Kobe, Japan
Launched :	1912
Displacement :	830 tons
Dimensions :	205 (pp.), 215 (o.a.) × 29½ × 8 feet
Guns :	2—3 inch, 5—25 mm. AA., 6 M.G.
Machinery :	Triple expansion, 2 shafts, I.H.P. : 1,350 = 11 kts.
Coal :	190 tons
Complement :	144

Note.—Nationalist.



CHU KWAN. 1947, *Official.*

65 CHU KWAN

Builders :	Kawasaki Co. Kobe
Launched :	1907
Displacement :	740 tons
Dimensions :	200 × 30 × 8 feet
Guns :	2—3 inch, 5—25 mm. AA.
Machinery :	Triple expansion, 2 shafts, I.H.P. : 1,350 = 11 kts.
Boilers :	Yarrow
Fuel :	150 tons coal
Complement :	117

Patrol Craft.

412 CHIANG P'ING

5 SC Type.

CHU CHIEN (SC 101)
CHU CH'IEN (SC 102)
CHU CH'IEN (SC 103)
HAI HUNG (SC 401)
HAI TA (SC 402)

6 Ex-HDML Type

FANG I
FANG SAN
FANG SEU
FANG LIU
FANG CHI
FANG PA

Motor Gunboats.

3 Ex-U.S. Type.

81 PAO YING (ex-U.S.S. *PGM* 20)
82 HUNG TSE (ex-U.S.S. *PGM* 26)
83 TUNG TING (ex-U.S.S. *PGM* 13)

Displacement :	280 tons
Dimensions :	174 (o.a.) × 23 × 6½ feet
Guns :	1—3 inch
Machinery :	2 Diesel, B.H.P. : 3,600 = 20 kts.
Complement :	80

Ex-Japanese Type.

86 YA LUNG

No. 39. 1950, *Lieut. A. W. Sugden, R.N.*

Auxiliary Motor Minesweepers.

2 AMS (ex-YMS) Type.

CHIANG I (AMS 401) **CHIANG YUNG** (AMS 402)

Displacement :	207 tons
Dimensions :	136 × 24½ × 6 feet
Guns :	1—3 inch, 2—20 mm.
Machinery :	2 Diesel, B.H.P. : 1,000 = 13 kts.
Fuel :	16 tons
Complement :	50

Surveying Ships.

351 CHING TIEN **CHIAO SHAN**

Submarine Chasers.

Ex-No. 9

Displacement :	309 tons
Dimensions :	181¼ (o.a.) × 18½ × 7 feet
Guns :	2—40 mm., 3—25 mm., D.C. 36
Machinery :	Diesel, 2 shafts, B.H.P. : 2,600 = 19 kts.

Ex-No. 49

Displacement	460 tons
Dimensions :	167¼ (o.a.) × 22 × 9 feet
Guns :	1—3·1 inch (8 cm.), 3—25 mm., 2—13 mm., D.C. 36
Machinery :	Diesel, 2 shafts, B.H.P. : 1,700 = 16 kts.

Note.—Ex-Japanese.

Ex-SC 518 **Ex-SC 637** **Ex-SC 648** **Ex-SC 703** **Ex-SC 704** **Ex-SC 708** **Ex-SC 722** **Ex-SC 723** **Ex-SC 735**

Transports.

311 WULING (*ex-Shirasaki*)

Displacement :	950 tons
Dimensions :	190½ (p.p.), 194½ (w.l.), 204½ (o.a.) × 46 × 10½ feet
Guns :	1—3·1 inch HA., 2—25 mm. AA., 2—13 mm. M.G.
Machinery :	2 Diesels, B.H.P. : 600 = 15 kts.

Note.—Ex-Japanese. Nationalist.

Ex-No. 16

Displacement :	1,800 tons
Dimensions :	315 (o.a.) × 33½ × 12 feet
Guns :	2—5 inch AA., 25—25 mm. AA., 5—13 mm. AA., 42 D.C.
Machinery :	Turbine, S.H.P. : 9,500 = 22 kts.
Boilers :	2

Note.—Ex-Japanese.

Ex-No. 172

Displacement :	1,129 tons
Dimensions :	264 (o.a.) × 30 × 10½ feet
Guns :	1—3·1 inch (8 cm.), 21—25 mm. AA., 12 D.C.
Machinery :	Turbine, S.H.P. : 2,500 = 16 kts.
Boilers :	2

Note.—Ex-Japanese.

312 KU LUN (ex-Japanese *Koiki*)

313 HUEI FENG **314 NAN HU** **315 CHIU HUA**

Note.—All three of Chinese origin.

Landing Ships.

LST Type.

CHUNG CHIEN. 1947, *Official.*

207 CHUNG CHENG (ex-*LST* 1075)
206 CHUNG CHI (ex-*LST* 1017)
205 CHUNG CHIEN (ex-*LST* 716)
202 CHUNG CHUAN (ex-*LST* 1030)
201 CHUNG HAI (ex-*LST* 755)
210 CHUNG YUNG
204 CHUNG HSING (ex-*LST* 557)
208 CHUNG HSUN (ex-*LST* 993)
209 CHUNG LIEN (ex-*LST* 1050)
203 CHUNG TING (ex-*LST* 537)
211 CHUNG SHENG (ex-*LST* 1033)

Displacement :	1,625 tons (4,080 tons *full load*)
Dimensions :	316 (*w.l.*), 328 (*o.a.*) × 50 × 14 (*max.*) feet
Guns :	6—40 mm. AA., 12—20 mm. AA.
Machinery :	Diesel, 2 shafts. B.H.P. : 1,700 = 11 kts.
Complement :	119

Note.—All Nationalist

WAN KUO (ex-*LST* 732) **WAN LEE** (ex-*LST* 380)

LSM Type.

MEI TSEN. *Added* 1949.

241 MEI TSEN (ex-LSM 155)
245 MEI HENG (ex-LSM 456)
248 MEI HO (ex-LSM 432)
242 MEI LO (ex-LSM 157)
244 MEI PENG (ex-LSM 431)
246 MEI HUNG (ex-LSM 442)
247 MEI SUNG (ex-LSM 457)
243 MEI YI (ex-LSM 285)

Displacement :	743 tons
Dimensions :	196½ (*w.l.*), 203½ (*o.a.*) × 34½ × 7½ feet
Guns :	2—40 mm. AA., 4—20 mm. AA.
Machinery :	Diesel, 2 shafts. B.H.P. : 2,800 = 12 kts.
Complement :	59

Note.—All Nationalist.

Landing Craft.

LSIL Type.

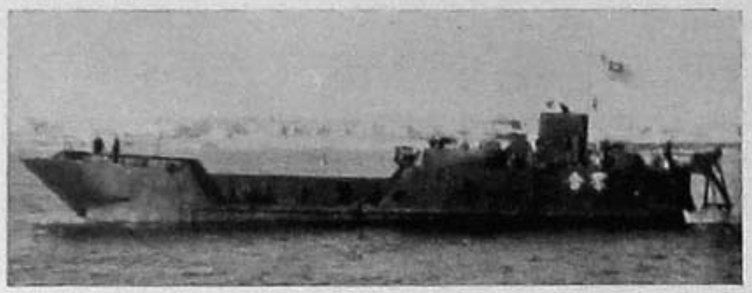
LIENG KUANG. 1947, *Official.*

257 LIENG TSENG (ex-*LCI* 630)
255 LIENG HWA (ex-*LCI* 631)
251 LIENG CHU (ex-*LCI* 233)
252 LIENG LI (ex-*LCI* 417)
253 LIENG SHENG (ex-*LCI* 418)
LIENG YING
256 LIENG CHIEH

Displacement :	387 tons *full load*
Dimensions :	159 × 23½ × 5½ feet
Guns :	2—20 mm. AA.
Machinery :	Diesel, 2 shafts. B.H.P. : 1,320 = 14 kts.
Complement :	78

Notes.—Ex-*LCI* (M) 630. Ex-*LCI* (G) 631, 233, 418, 417. All Nationalists.

LCU (ex-LCT) Type.



HO CHUN. 1947, *Official.*

HO CHANG (LCT 405)
HO CHENG (LCT 403)
HO CHING (LCT 406)
HO CHIH (LCT 407)
HO CHUN (LCT 401)
HO CHUNG (LCT 404)
HO CH'UNG (LCT 402)

Displacement :	285 tons *full load*
Dimensions :	114½ × 32½ × — feet
Guns :	2—20 mm. AA.
Machinery :	Diesel, 3 shafts. B.H.P. : 675 = 10 kts.

Notes.—Additional landing craft were to have been transferred, including possibly 22 LCT, 6 LCC, 25 LCM, 1 LCP, 50 LCS and 25 LCVP. Ex-LCT numbers reported are 512, 849, 892, 1143, 1145, 1213.

Repair Ship.

301 OMEI (ex-U.S.S. *Maumee*)

Builders :	Mare Island Yard
Launched :	1915
Displacement :	4,990 tons (14,500 tons *full load*)
Dimensions :	475½ (*o.a.*) × 56 × 10 (*mean*), 26½ (*max.*) feet
Guns :	5—3 inch, 2—40 mm. AA., 8—20 mm. AA.
Machinery :	Diesel, 2 shafts. B.H.P. : 5,000 = 14 kts.
Oil fuel :	820 tons

Notes.—Cargo capcity 7,850 tons. Nationalist. Repair ship and oiler.

Oilers.

302 TAI HWA (ex-U.S.S. *Tawaliga*, *AOG* 42) **HSIN KAO**

Builders :	East Coast Shipyards
Launched :	Oct. 29, 1944
Displacement :	700 tons (2,700 tons *full load*) 1,453 tons *deadweight*
Dimensions :	212½ (*w.l.*), 220½ (*o.a.*) × 37 × 12½ feet
Guns :	1—3 inch, 2—40 mm. AA., 3—20 mm. AA.
Machinery :	Diesel. B.H.P. : 800 = 10 kts.

303 YUCHUAN (ex-*Wautauga*, *AOG* 22, ex-*Conrol*)

Builders :	Todd-Galveston S.B. Co.
Launched :	Jan. 10, 1944
Displacement :	2,700 tons *full load* (1,453 deadweight tons)
Dimensions :	220½ (*o.a.*) × 37 × 12½ feet
Machinery :	Diesel. 1 shaft. B.H.P. : 800 = 10 kts.

Notes.—Ex-U.S. TI-M-A2 type small oiler. Now Nationalist. It was hoped to acquire 23 more oilers of AOG and smaller types.

304 SZU MING (ex-U.S.S. *Yo* 198)

Fleet Tugs.

331 PU TO (ex-*ATR* 26)

Launched :	April 23, 1944.
Displacement :	852 tons
Dimensions :	155 (*w.l.*), 165½ (*o.a.*) × 33½ × 15½ feet
Guns :	1—3 inch, etc.
Machinery :	Triple expansion. I.H.P. : 1,600 = 12 kts.
Boiler :	Babcock & Wilcox
Complement	52

Notes.—Built of wood. It was hoped to acquire 4 more tugs of above type, 4 of ATA type, and 30 smaller ones.

332 WU KUNG
333 TA MING
334 TA HUNG
335 TA YU (ex-*LT* 310)
336 TA CHING

CHINA (COMMUNIST)

(CHINESE COMMUNIST CENTRAL PEOPLE'S GOVERNMENT)

Light Cruiser?

CHUNGING (*ex-H.M.S. Aurora*)

Notes.—Damaged and on side at Hulutao in March 1949 after Nationalist bombing. Reported may have been salvaged and made operative.

Frigates.

2 Ex-Japanese Escort Destroyer Types.

HUI AN (*ex-Shisaka*)

Launched :	1943
Completed :	1945
Displacement :	1,020 tons (940 tons *standard*)
Dimensions :	258½ (*o.a.*) × 30 × 10 feet
Guns :	2—4·7 inch, 6 M.G.
Machinery :	2 Diesels, B.H.P. : 4,200 = 19·5 kts.
Radius :	5,000 miles at 16 kts.
Complement :	150

Notes.—Ex-Japanese. Now Communist. Reported to have been repaired after 1950 bombing. Sister ship of *Cheng An* which is Nationalist

Added 1953, *Hajime Fukaya.*

CHANG PEI (*ex-Japanese Oki, ex-Chinese Ku An*)

Builders :	Uraga Dock Company, Limited
Laid down :	27 Feb. 1942
Launched :	20 Oct. 1942
Completed :	31 Mar. 1943
Displacement :	1,020 tons (870 tons *standard*)
Dimensions :	237¾ (*p.p.*), 250 (*w.l.*), 255 (*o.a.*) × 30 × 10 feet
Guns :	3—4·7 inch, 1—3·1 inch, 15—25 mm. AA.
A/S Weapons :	60 D.C.
Machinery :	2 Diesels. 2 shafts. B.H.P. : 4,200 = 19·7 kts.

Notes.—Ex-Japanese Type A or "Etorofu" class. Above is original armament. Sister ship of *Lin An* held by Nationalists.

1 Ex-Japanese Sloop (Gunboat) Type.

NAN CHANG (*ex-Chinese Chang Chi, ex-Japanese Uji*)

Builders :	Sakurajima Works, Osaka
Launched :	26 Sep. 1940
Completed :	1941
Displacement :	1,206 tons
Dimensions :	249½ (*p.p.*), 257½ (*w.l.*), 264 (*o.a.*) × 31¾ × 8¾ feet
Guns :	3—4·7 inch, 9—25 mm. AA., 3 M.G.
Machinery :	2 turbines. S.H.P. : 4,600 = 20·15 kts.
Boilers :	2
Radius :	3,460 miles at 14 kts.
Complement :	170

Frigates—*continued.*

6 Ex-Japanese Corvette Types.

CHI AN.

Added 1953, *Hajime Fukaya.*

CHI AN (*ex-No. 85*) **SHEN YANG** (*ex-Yuang An, ex-Mukden, ex-No. 81*)

Displacement :	810 tons
Dimensions :	206¾ (*p.p.*), 216½ (*w.l.*), 221½ (*o.a.*) × 27½ × 9½ feet
Guns (original) :	2—4·7 inch, 1—3·1 inch, 12—25 mm.
A/S Weapons :	120 D.C.
Machinery :	2 Diesels. B.H.P. : 1,900 = 16·5 kts.

Notes.—Ex-Japanese C or No. 1 Type. *Chi An* built by Tsurumi, begun 20 Nov. 1944, launched 27 Jan. 1945, completed 31 May 1945

SI AN.

Added 1953, *Hajime Fukaya.*

CHANG SHA (*ex-Chinese Chieh 12, ex-Japanese No. 188*) **SI AN** (*ex-Chinese Chieh 14, ex-Japanese No. 198*)
CHI NAN (*ex-Wei Hai, ex-No. 194*) **WU CHANG** (*ex-Chinese Chieh 5, ex-Japanese No. 14*)

Displacement :	900 tons
Dimensions :	213¼ (*pp.*), 223 (*w.l.*), 228 (*o.a.*) × 28½ × 10 feet
Guns (original) :	2—4·7 inch, 1—3·1 inch, 12—25 mm.
A/S Weapons :	120 D.C.
Machinery :	1 turbine. S.H.P. : 2,500 = 17·5 kts.

Notes.—Ex-Japanese Type D or No. 2 Type.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Chang Sha	Kawasaki, Sensha Works	8 June 1944	18 Oct. 1944	27 Dec. 1944
Si An	Mitsubishi, Nagasaki	17 Jan. 1945	26 Feb. 1945	31 Mar. 1945

1 Ex-Canadian Corvette Type.

KUANG CHOU (*ex-Chinese Yuan Pei, ex-H.M.C.S. Bowmanville, ex-Nunney Castle*)

Builders :	Wm. Pickersgill & Sons, Ltd., Sunderland
Laid down :	12 Aug. 1943
Launched :	26 Jan. 1944
Completed :	8 Oct. 1944
Displacement :	1,100 tons (1,580 tons *full load*)
Dimensions :	252 (*o.a.*) × 36½ × 15½ (*max*). feet
Guns :	2—5·1 inch, 3—37 mm. AA.
Machinery :	Triple expansion. I.H.P. : 2,800 = 16·5 kts.
Boilers :	2 three-drum type
Oil fuel :	480 tons

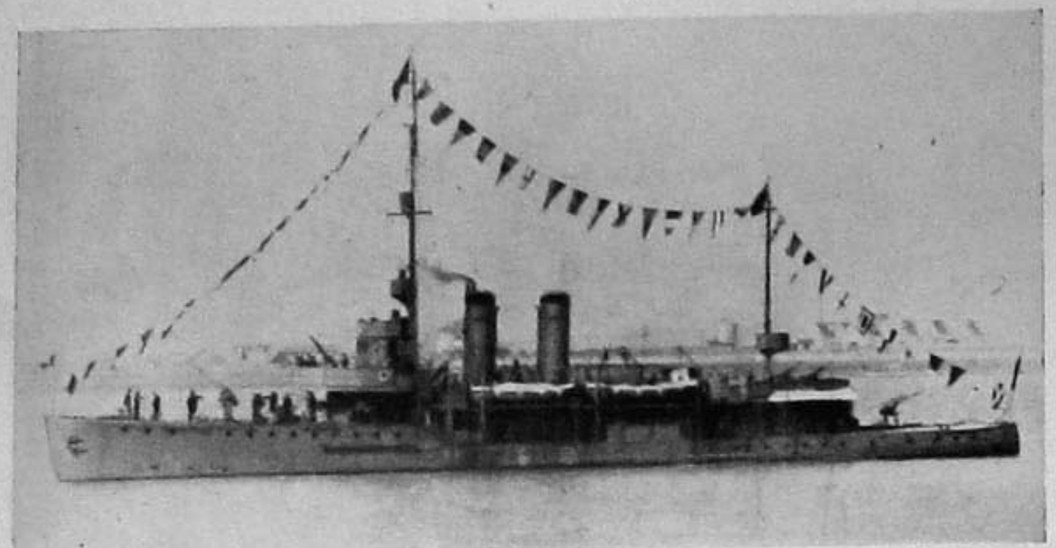
Notes.—Converted from merchant vessel by Chinese Communists and rearmed.

Gunboats.

YUNG SUI

Builders :	Kiangnan Dock Co., Shanghai
Launched :	1929
Displacement :	650 tons
Dimensions :	225 × 30 × 6 feet (*mean*), 7 (*max.*) feet
Guns :	1—3 inch AA., 1—40 mm. AA., 4 M.G.
Machinery :	Triple expansion, 2 shafts. I.H.P. : 4,000 = 12 kts.
Boilers :	2 Yarrow, Coal fired
Complement :	152

Notes.—Chinese Communist. Reported to have been repaired after sinking in 1949.



1947, *Official.*

MING CHUAN

Builders :	Kiangnan Dock Co., Shanghai
Launched :	1929
Displacement :	464 tons
Dimensions :	176½ × 26 × 6 feet (*mean*, 7½ (*max.*) feet
Guns :	Only 3 M.G. at present
Machinery :	Triple expansion, 2 shafts. I.H.P. : 2,200 = 12 kts.
Boilers :	2 Yarrow
Coal :	280 tons
Complement :	119

Motor Torpedo Boats.

ex-KUAI 102

Displacement :	60 tons *standard*
Dimensions :	92 × 14 × 5 feet
Speed :	30 to 33 kts. (*max.*)
Compliment :	14

Notes.—Built in Germany 1936-37. Whereabouts of ex-Nationalist *Kuai* 101 (same class as ex-Chinese *Kuai* 102) unknown. There are approximately 35 other motor torpedo boats of 40 ft. and 70 ft.

Patrol Craft
SC Type.

KWANG KUO (ex-Japanese *No.* 223)

Displacement :	135 tons
Dimensions :	96 × 19 × 9 feet

HSIEN FENG (ex-Chinese *Kao Ming*, ex-Japanese.)

Note.—Built in 1941-43.

Surveying Ships.

CHUNG NING (ex-Japanese *Takebu Maru*)

Displacement :	200 tons
Dimensions :	115 × 16 × 6 feet
Speed :	10 kts.

FUTING

Displacement:	160 tons
Dimensions:	90 × 20 × 8 feet
Speed:	11 kts.

Landing Ships.

CHING KANG SHAH
CHUNG 101 (ex-U.S.S. *LST* 804)
CHUNG 102 (ex-U.S.S. *LST* 629)
CHUNG 106 (ex-U.S.S. *LST* 589)
CHUNG 107 (ex-U.S.S. *LST* 1027)
CHUNG 110
CHUNG 111 (ex-U.S.S. *LST* 805)
CHUNG 116 (ex-U.S.S. *LST* 406)
CHUNG 122 (ex-*Ch'ing Li*)
CHUNG 125
No. 16
No. 258

Landing Craft.
13 LSM Type.

HUA 201 (ex-U.S.S. *LSM* 112)
HUA 202 (ex-U.S.S. *LSM* 248)
HUA 204 (ex-U.S.S. *LSM* 430)
HUA 205 (ex-U.S.S. *LSM* 336)
HUA 207 (ex-U.S.S. *LSM* 282)
HUA 208 (ex-U.S.S. *LSM* 42)
HUA 209 (ex-U.S.S. *LSM* 153)
HUA 211
HUA 212

CHUAN SHIH SHUI
HUAI HO (ex-Chinese *Wan Fu*)
YUN HO (ex-Chinese *Wang Chung*)
HUANG HO or **HANG PO** (ex-Chinese *Mei Sheng*, ex-U.S.S. *LSM* 433)

Note.—Some converted for minelaying.

15 LSIL Type.

MIN 301
MIN 303
MIN 306
MIN 311
MIN 312
MIN 313
MIN 319
MIN 321
MIN 325
MIN 331

CHU TIEN (ex-Chinese *Lien Kuang*, ex-U.S.S. *LCI* 517)
KU CHOU
ex-U.S.S. *LCI* 433
LIENG PI (ex-U.S.S. *LCI* 514)
YUNG KAN (ex-Chinese *Lien Yung*, ex-U.S.S. *LCI* 632)

2 LCU (ex-LCT) Type.

HO CHIEN (ex-U.S.S. *LCT* 515)
HO YUNG (ex-U.S.S. *LCT* 1171)

River Gunboats.

CHIANG FENG (ex-Japanese *Fushimo*)
CHIANG HSI (ex-Chinese *Nan Chang*, ex-Japanese *Sumida*

Displacement :	373·6 tons, official Japanese figure, 320 tons *standard*
Dimensions :	159½ (*p.p.*), 164 (*w.l.*), 165 (*o.a.*) × 32¼ × 4½ feet
Guns :	1—3·1 inch H.A. short cal., 8—25 mm. and other cal. AA.
Machinery :	2 turbines. S.H.P. : 2,200 = 16·7 kts. (designed)
Boilers :	2
Radius :	1,496 miles at 14 kts.
Complement :	64

Notes.—Both ships were built by Fujinagata, completed 15 July 1939 and 31 May 1940, respectively. Were the latest river gunboats in the Japanese Navy. *Fushimo* bombed and bottomed at Anking 29 Nov. 1944, salvaged and towed to Shanghai for repairs and was moored there at the end of the war. *Sumida* at Shanghai at the end of the war ; her armament had been removed for land batteries.

TUNG HSIN
TUNG TEH

Displacement :	500 tons *standard*
Guns :	1—3 inch, 4—47 mm.
Speed :	11 to 15 kts. *max.*
Fuel :	Coal

Notes.—Captured by Communists in 1949.

251R

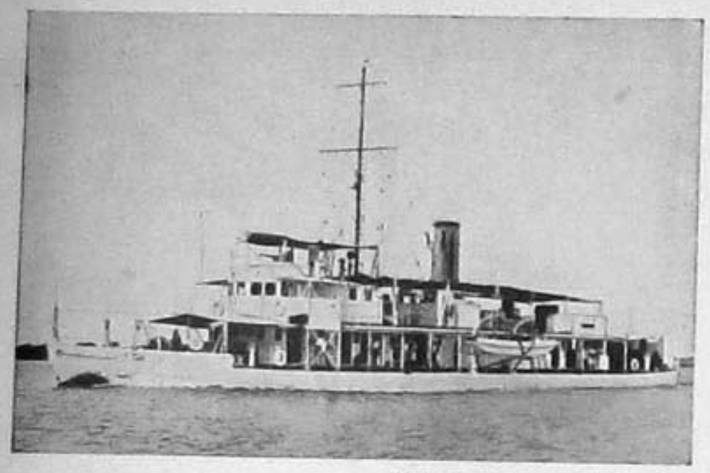
River Gunboats—*continued.*

1947 *Official.*

KIANG SHIH (*ex-Fushimi*)

Builders:	Fujinagato Co., Osaka
Launched :	1939
Displacement :	350 tons
Dimensions :	193½ × 25½ × 5½ feet
Guns :	1—3 inch, 1—25 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 2,300 = 17 kts. (actual speed, 12 kts.)
Boilers :	2 Yarrow. Oil fuel
Complement :	64

Note.—Ex-Japanese.



1933, *courtesy Messrs. Thornycroft.*

YING HAO (*ex-H.M.S. Sandpiper*)

Builders :	John I. Thornycroft & Co. Ltd. Southampton
Launched :	9 Jun., 1933
Displacement :	185 tons
Dimensions :	160 × 30½ × 2 (*mean*) feet
Guns :	1—3·7 inch howitzer, 9 smaller
Machinery :	2 sets triple expansion. 2 shafts. I.H.P. : 600 = 11 kts.
Boiler :	1, of Admiralty 3-drum type
Complement :	40

Notes.—Presented to China by the British Government in Feb. 1942. Now has mainmast. Name means "British Hero."

NAN CHANG (*ex-Ying Teh, ex-Lung Huan, ex-H.M.S. Falcon*)

Builders :	Yarrow & Co., Ltd., Scotstoun, Glasgow
Launched :	1931
Displacement :	372 tons
Dimensions :	150 × 28½ × 5 (*mean*) feet
Guns :	1—3·7 inch howitzer, 2—6 pdr., 10 M.G.
Machinery :	Parsons geared turbines. S.H.P. : 2,250 = 15 kts.
Boilers :	2, of Admiralty 3-drum type
Fuel :	84 tons oil
Complement :	55

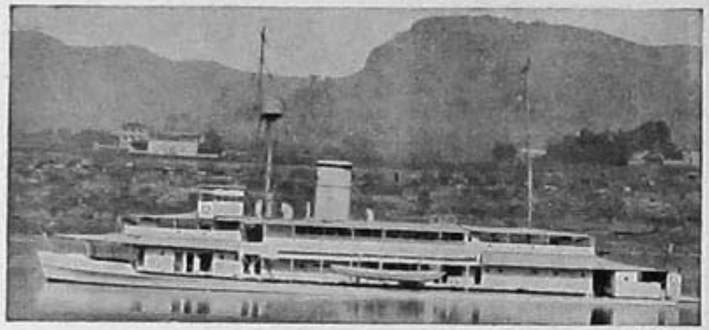
Notes.—Presented to China by the British Government in Feb., 1942. Name means "British Virtue."

YUNG PING. 1947, *Official.*

YUNG AN (*ex-Futami*) **YUNG PING** (*ex-Atami*)

Displacement :	170 tons
Dimensions :	148½ × 22 × 4½ feet
Guns :	3—3 inch, 3—25 mm. AA., 3 M.G.
Machinery :	2 set triple expansion. 2 shafts. I.H.P. : 1,200 = 12 kts
Boilers :	2 Kampon
Oil fuel :	53 tons
Complement :	77

Notes.—Both launched 1929. Former Japanese river gunboats.



1932.

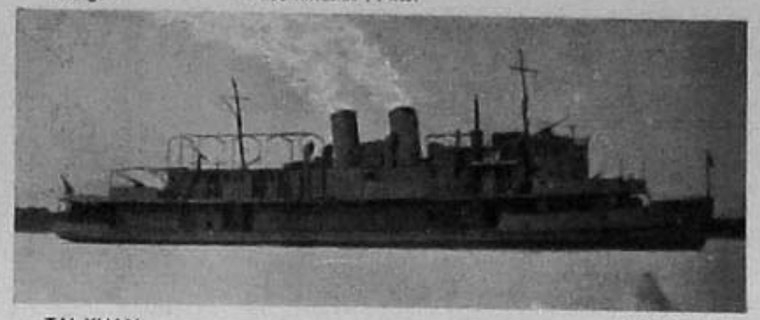
YING SHAN (*ex-H.M.S. Gannet*)

Builders :	Yarrow & Co., Ltd. Scotstoun, Glasgow
Launched :	1927
Displacement :	310 tons
Dimensions :	177 (*w.l.*), 184½ (*o.a.*) × 29 × 3½ feet
Guns :	2—3 inch A.A., 8 M.G.
Machinery :	Geared turbines. Designed H.P. : 2,250 = 16 kts.
Boilers :	Yarrow
Fuel :	60 tons oil
Complement :	55

Notes.—Designed by Yarrow. Presented to China by the British Government in Feb., 1942. Name means "British Mountain."

FA KU (*ex-French Balny*)

Builders :	Chantiers de Bretagne, Nantes
Launched :	1920
Completed :	1921
Displacement :	201 tons
Dimensions :	167½, 179 (*o.a.*) × 23 × 5 feet
Guns :	1—3 inch AA., 2—1 pdr., 4 M.G.
Machinery :	Triple expansion. I.H.P. : 920 = 14 kts.
Boilers :	2 Fouche water tube
Fuel :	45 tons coal
Complement :	49
Range :	900 miles at 14 kts.



TAI YUAN. 1947, *Official.*

MEI YUAN (*ex-U.S.S. Tutuila*) **TAI YUAN** (*ex-Tatara, ex-U.S.S. Wake, ex-Guam*)

Displacement :	370 tons *standard*
Dimensions :	150 (*w.l.*), × 159½ (*o.a.*) × 27 × 5½ (*mean*—fresh water), 6 (*max.*) feet
Guns :	2—3 inch, 23 cal., 10 M.G.
Machinery :	Triple expansion. I.H.P. : 1,950 = 12 kts.
Oil fuel :	75 tons
Complement :	70

Notes.—Launched 14 June and 28 May 1927, respectively. *Mei Yuan* was presented to China by the U.S. Government in March 1942. Sister ship was recovered from Japanese hands and presented to China in 1946. *Mei Yuan* means "American Origin."

CHANG TEH (*ex-Seta*)

Displacement :	305 tons
Dimensions :	180 × 27 × 3½ feet
Guns :	2—3 inch, 6 M.G.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,100 = 14 kts.
Boilers :	2 Kampon
Oil fuel :	85 tons
Complement	82

Note. Japanese prize, built at Harima yard. Launched 1923.

1947, *Official.*

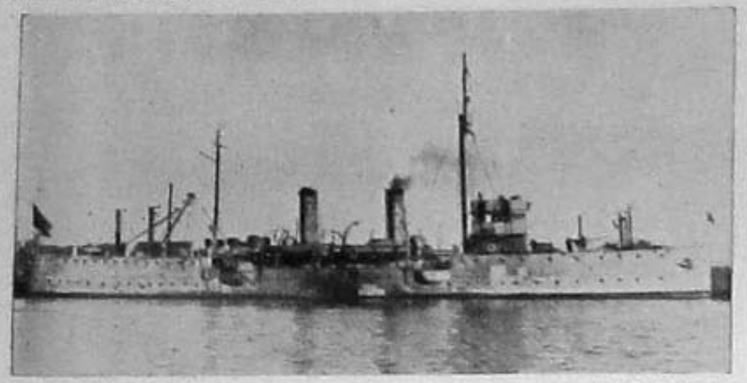
AN TUNG (*ex-Japanese Ataka, ex-Nakoso*)

Launched :	April, 1922
Displacement :	727 tons
Dimensions :	222 × 32 × 7½ feet
Guns :	2—3 inch, 5—25 mm., 6 M.G.
Machinery :	Triple expansion. I.H.P. : 1,700 = 11 to 14 kts.
Boilers	2 Kampon

KIANG KUN (ex-Japanese *Norumi*, ex-Italian *Ermanno Carlotto*)

Builders :	Shanghai Dock & Engineering Co.
Launched :	1921
Completed :	1921
Displacement :	180 tons *standard*
Dimensions :	160 × 24½ × 2½ feet
Guns :	2—3 inch, 6 M.G.
Machinery :	Designed I.H.P. : 1,100 = 14 kts. (*max.*)
Boilers :	2 Yarrow
Oil :	56 tons
Complement :	60

Notes.—Shallow draught river gunboat. Twin screws in tunnels.



1947, *Official.*

YEN AN (ex-*Yung Chi*, ex-Japanese *Asuka*, ex-*Yung Chi*)

Builders :	Kiangnan Dock Co., Shanghai
Launched :	1915
Displacement :	860 tons
Dimensions :	205 (*pp.*), 215½ (*o.a.*) × 29½ × 11½ *feet* (*max.*)
Guns :	2—3 inch, 4 M.G.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,350 = 11 kts.
Boilers :	2 cylindrical
Coal :	156 tons
Complement:	143

Note.—Sunk in 1945 and later salvaged.

1947, *Official.*

HO HSEUH (ex-Chinese *Yung Ch'i*, ex-Japanese *Toba*)

Launched :	1911
Displacement :	215 tons
Dimensions :	180 × 27 × 2½ feet (*mean*), 4 feet (*max.*)
Guns :	3—3 inch, 3—25 mm. AA., 3 M.G.
Machinery	Triple expansion. 2 shafts. I.H.P. : 900 = 9 kts.
Boilers :	2 Kampon
Coal :	80 tons
Complement :	86

WU FENG ex-Japanese *Maiko*, (ex-Portuguese *Macau*)

Builders :	Yarrow & Co., Ltd., Glasgow
Launched :	1909
Displacement :	100 tons
Dimensions :	120 (*o.a.*) × 20 × 2 feet
Guns :	2—6 pdr., 3 M.G.
Machinery :	H.P. : 250 = 11·8 kts.
Boilers :	1 Yarrow
Complement :	24

CHU TUNG

Displacement :	740 tons
Dimensions :	200 × 30 × 8 feet
Guns :	2—3 inch, 5—25 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,350 = 11 kts.
Boilers :	Yarrow
Coal :	150 tons
Complement :	117

Notes.—Built by Kawasaki Co., Kobe. Launched 1906. Sister ship of *Chu Kwan* (Nationalist)

CHIANG YUAN

Builders :	Kawasaki Co., Kobe
Launched :	1905
Displacement :	550 tons
Dimensions :	170 (*pp.*), 180 (*o.a.*) × 28 × 7 feet
Guns :	Only 1—20 mm. AA. at present
Machinery :	Triple expansion. 2 shafts. I.H.P. : 950 = 9 kts.
Boilers :	Watertube
Coal :	113 tons
Complement :	127

Motor Gunboats.

3 Ex-U.S. Type.

Ex-PGM 12 **Ex-PGM 14** **KAN TANG** (*ex-PGM 15*)

Note.—For appearance, see U.S. section.

Motor Launches.

Ex-ML 1033 **Ex-ML 1058** **Ex-ML 1068** **Ex-ML 1405**
Ex-ML 1047 **Ex-ML 1059** **Ex-ML 1390** **Ex-ML 1406**

Note.—Acquired from Great Britain.

Supply Ships.

Ex-U.S. Army FS 146 Ex-U.S. Army FS ——
Ex-U.S. Army FS 155 Ex-U.S. Army FS ——

TA CHEN (*ex-U.S.*)

Displacement :	1,000 tons *standard*
Length :	175 (*o.a.*)

Troop Transport.

CHIAO JEN

Measurement :	1,873 tons

Note.—Formerly Chinese Nationalist troop transport. Mined July 28, 1949. Suffered machinery derangement but no hull damage. After survey crew hoisted Communist flag and took her to Canton.

Minelayer.

Ex-KUROSHIMA

Displacement :	420 tons
Dimensions :	150 (*o.a.*) × 25 × 7½ feet
Guns :	1—3·1 inch, 2—13 mm. M.G.
Mines :	120
Machinery :	2 reciprocating engines : I.H.P. : 600 = 12·8 kts.
Boilers :	1
Fuel :	Coal

Note.—Japanese prize, acquired in 1947. Rated as Auxiliary Minelayer.

Coastal Minesweepers.

Ex-U.S. Type

Ex-YMS Type. 1944, *U.S. Navy, Official.*

Ex-YMS 339 **Ex-YMS 346** **Ex-YMS 367** **Ex-YMS 393** **Ex-YMS 2017**

Displacement :	215 tons
Dimensions :	136 × 24½ × 6 feet
Guns :	1—3 inch, 2—20 mm., 2 D.C.T.
Machinery :	2 G.M. Diesels. B.H.P. : 1,000 = 13 kts.
Complement :	50

Notes.—Built of wood in U.S.A., 1942-43 and transferred to Chinese Navy, 1948. Four YMS type are Communist.

Ex-Japanese Type

Ex-No. 4 **Ex-No. 19** **Ex-No. 22** **No. 201** (*ex-No. 14*)

Displacement :	215 to 222 tons
Dimensions :	97½ (*o.a.*) × 19½ × 7½ (*max.*) feet
Guns :	1—3·1 inch, 4—25 mm. (No. 214, 1—40 mm., 1—25 mm., 2—13 mm., 3—7·7 mm.)
Machinery :	1 Diesel. B.H.P. : 300 = 9·5 kts.
Radius :	1,700 miles at 9.5 kts.

Notes.—Ex-Japanese auxilliary minesweepers. Trawler type. No. 201 completed 1943, delivered to China at Tsingtau 3 Oct. 1947, taken over by Communists.

Repair Ship.

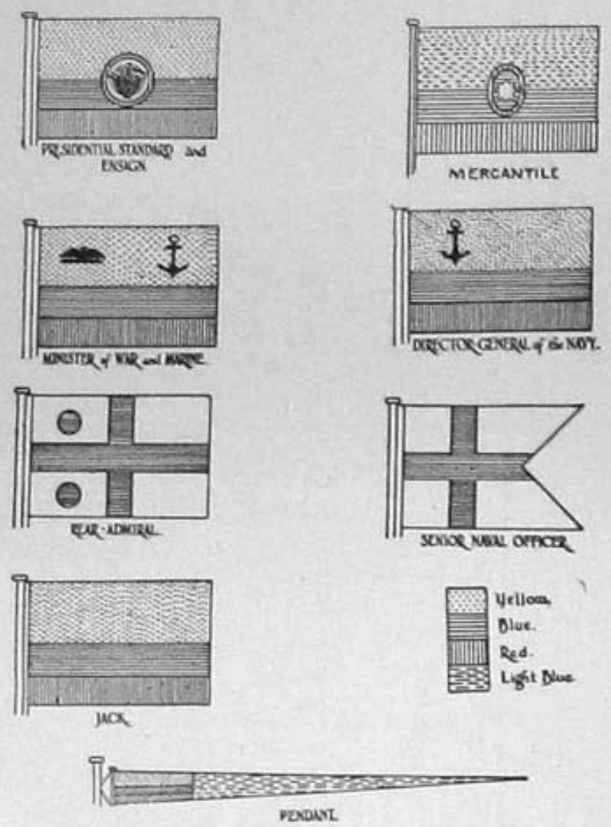
HSING AN (*ex-Achilles*, ARL 41, *ex-LST 455*)

Launched :	17 Oct., 1942
Displacement :	4,000 tons *full load*
Dimensions :	316 (*w.l.*), 328 (*o.a.*) × 50 × 11 feet
Guns :	1—3 inch, 8—40 mm. AA.
Machinery :	Diesel-electric. 2 shafts. B.H.P. : 1,800 = 11 kts.

Notes.—Ex-U.S. Burned and grounded in 1949, salved. Chinese Communist. Another vessel of this type was to have been acquired.

COLOMBIA

Flags.



Administration.

Director-General of Navy : Capitan de Fragata Ruben Piedrahita Arango.

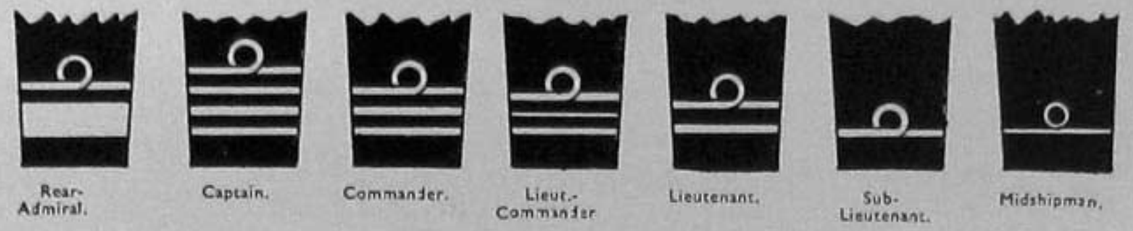
Personnel.

260 officers, 2,000 men. Also 400 Marines.

Ships.

Ships names are prefaced by "A.R.C." (Armada Republica Colombia).

Uniforms.



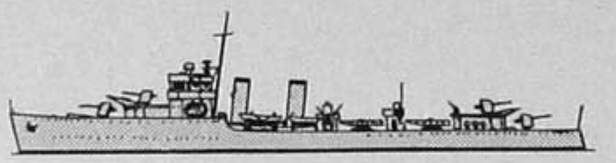
Other branches are distinguished by the following colours between stripes:—

Surgeons :	scarlet.	*Instructor officers* :	light blue.
Engineers :	purple.	*Electrical officers* :	dark green.
Dental Surgeons :	orange.	*Radio officers* :	light green.
Supply officers :	white.	*Legal officers* :	silver grey.

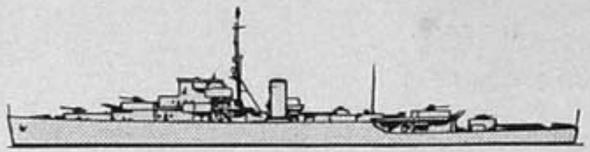
Naval Base.

CARTAGENA, where entire construction of small naval craft is now undertaken in the naval dockyard.

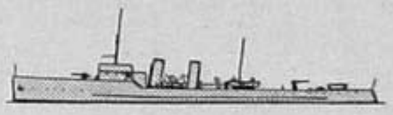
Silhouettes.



ANTIOQUIA, CALDAS



ALMIRANTE PADILLA, CAPITAN TONO, ALMIRANTE BRIÓN

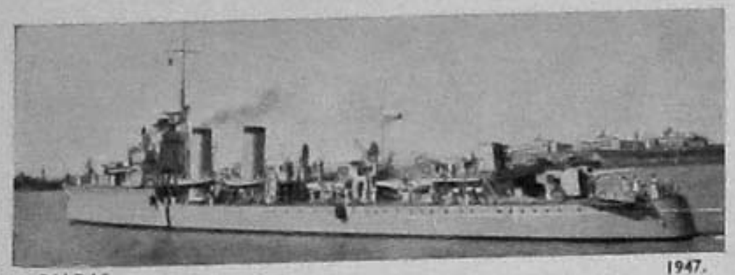


MARISCAL SUCRE

L

COLOMBIA—Destroyers, Frigates, Motor Launches, Gunboats

Destroyers.



CALDAS 1947.

	ANTIOQUIA (ex-*Tejo*)	**CALDAS** (ex-*Douro*)
Displacement :	1,219 tons *standard* (1,563 tons *full load*)	
Dimensions :	319 (pp.), 322 (*o.a.*) × 31 × 11 (*max.*) feet	
Guns :	2—5 inch, AA., 6—40 mm. AA., 6 D.C.T.	
Tubes :	4—21 inch, in quadruple mount	
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 33,000 = 36 kts.	
Boilers :	3 Yarrow, working pressure 400 lb.	
Oil fuel :	296 tons	
Radius :	5,400 miles at 15 kts.	
Complement :	147	

Notes.—Both Yarrow type built at Lisbon for Portugal, launched 9 June 1932 and 18 Nov., 1933, respectively and purchased in 1934. Fitted for minelaying. *Antioquia* was entirely modernised at Cartagena naval base in 1952. New armament being installed in U.S.A. in 1953 including single 5-inch guns and twin Bofors. *Caldas* is due for same refit and rearmament in 1954.

Frigates.

ALMIRANTE PADILLA. 1948, *Official.*

	ALMIRANTE BRIÓN **ALMIRANTE PADILLA** (ex-U.S.S. *Groton*)	**CAPITAN TONO** (ex-U.S.S. *Bisbee*)
Displacement :	1,430 tons (2,100 tons *full load*)	
Dimensions :	303½ × 37½ × 13½ feet	
Guns :	3—3 inch, 6—40 mm. AA., 4—20 mm. AA., 3 D.C.T.	
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.	
Boilers :	2, of 3-drum type	
Fuel :	290 tons	
Complement :	120	

Notes.—All completed 1944. *Almirante Padilla* purchased from U.S. Navy in 1947. Saw active service in Korean waters 1951. *Capitan Tono* acquired from U.S. 1952, *Almirante Brión* in 1953.

Pendant No.	*Name*	*Builders*	*Launched*
	Almirante Brión		
06	*Almirante Padilla*	Walter Butler, Superior, Wisc.	14 Sep. 1943
	Capitan Tono	Consolidated Steel Corpn., Los Angeles	8 Sep. 1943

Motor Launches.

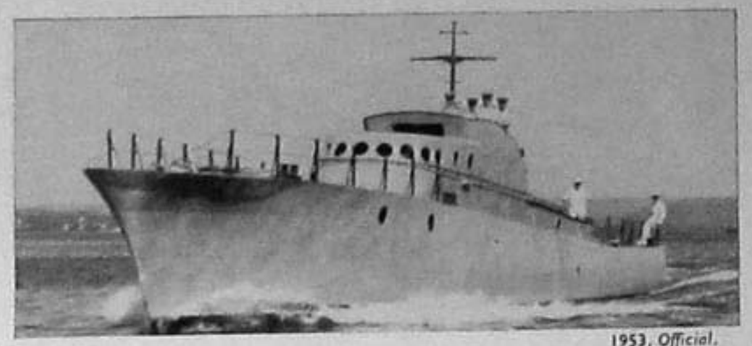
ALBERTO RESTREPO (1 Oct. 1952) **HUMBERTO CORTES** (26 Nov. 1952)
CARLOS GALINDO (building) **JUAN LUCIO** (2 May 1963)

Displacement :	35 tons
Dimensions :	76¾ (pp.), 81½ (*o.a.*) × 12 × 2¾ feet
Guns :	1—20 mm., 4 M.G.
Machinery :	2 G.M. Diesels, B.H.P. : 260 = 13 kts.
Complement	13

ALFONSO VARGAS (3 July 1952) **FRITZ HAGALE** (19 July 1952)

Displacement :	33 tons
Dimensions :	72 (pp.), 76 (*o.a.*) × 12 × 2¾ feet

Note.—Other particulars similar to above.



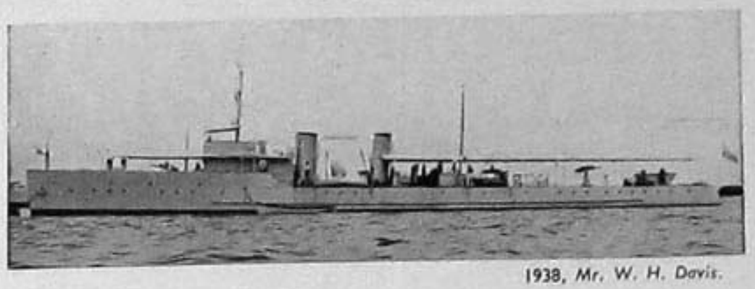
1953, *Official.*

ESPARTANA (22 June 1950)

Displacement :	50 tons
Dimensions :	90 (*w.l.*), 96 (*o.a.*) × 13 × 4 feet
Guns :	1—20 mm. AA.
Machinery :	2 Diesels. B.H.P. : 300 = 13·5 kts.
Oil fuel :	6 tons
Complement :	11

Notes.—A new design constructed by the Engineer of the Naval Dockyard at Cartegena.

Gunboat.



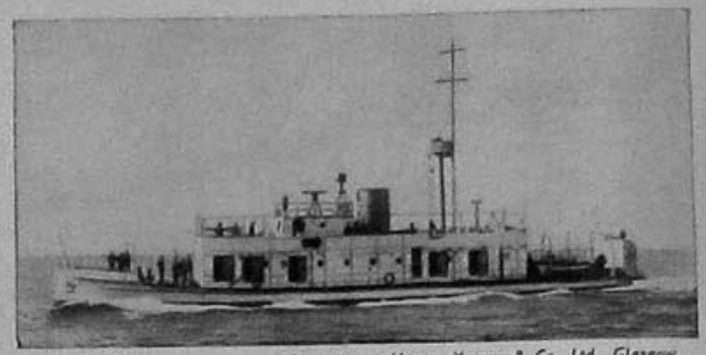
1938, *Mr. W. H. Davis.*

MARISCAL SUCRE (ex-yacht *Flying Fox*, ex-*Winchester*

Displacement :	125 tons *standard*
Dimensions :	160 (pp.), 165 (*o.a.*) × 15½ × 4 feet
Guns :	2—3 inch, 2—20 mm. AA., 2—6 pdr. 2 M.G.
Machinery :	Parsons turbines. 3 shafts. S.H.P. : 2,500 = 14 kts.
Boilers :	2 Yarrow
Oil fuel :	17 tons
Complement :	22

Notes.—Built by Yarrow & Co., Ltd., Scotstoun. Launched 1909

River Gunboats.



CARTAGENA. 1930, *courtesy Messrs. Yarrow & Co., Ltd., Glasgow.*

	BARRANQUILA	**CARTAGENA**	**SANTA MARTA**
Displacement :	142 tons		
Dimensions :	130 (pp.), 137½ (*o.a.*) × 23½ × 2¾ (*max.*) feet		
Guns :	2—3 inch, 1—20 mm. AA., 4 M.G.		
Machinery	2 Gardner semi-Diesel engines. 2 shafts, working in tunnels. H.P. : 600 = 15·5 kts.		
Fuel :	24 tons		
Complement :	39		

Notes.—These three vessels represent an extraordinarily efficient type of shallow draught gunboat, incorporating many improvements on previous types. Hull is of galvanised steel, and machinery spaces, cabins and magazines are of bullet-proof plating. Ventilation and refrigerating plant designed to secure excellent habitability. Names are those of Colombian ports.

Name	*Builders*	*Launched*
Barranquilla	Yarrow & Co., Ltd., Scotstoun, Glasgow.	10 May, 1930
Cartagena		26 Mar., 1930
Santa Marta		16 Apr., 1930

FERNANDEZ MADRID

Launched :	1926
Displacement	150 tons
Dimensions :	127½ × 27½ × 3½ feet
Machinery :	Triple expansion
Speed :	10 kts.
Complement :	35

DEMETRIO SALAMANCA

Displacement :	120 tons
Dimensions :	70 × 12½ × 4½ feet
Machinery :	Triple expansion. I.H.P. : 40 = 4·5 kts.
Complement	18

PRESIDENTE MOSQUERA

Launched :	1912
Displacement :	230 tons
Dimensions :	127½ × 26½ × 4½ feet
Guns :	1—3 inch, 2—20 mm. AA., 7 M.G.
Machinery :	Triple expansion (stern wheel)
Speed :	11 kts.
Complement :	60

Motor Minesweeper

LETICIA

Coastguard Vessels.

R. D. BINNEY (1947)

Displacement :	25 tons
Dimensions :	63 × 11 × 3½ feet
Machinery :	Diesels. B.H.P. : 115 = 10 kts.

JUNIN. 1938, *Mr. W. H. Davis.*

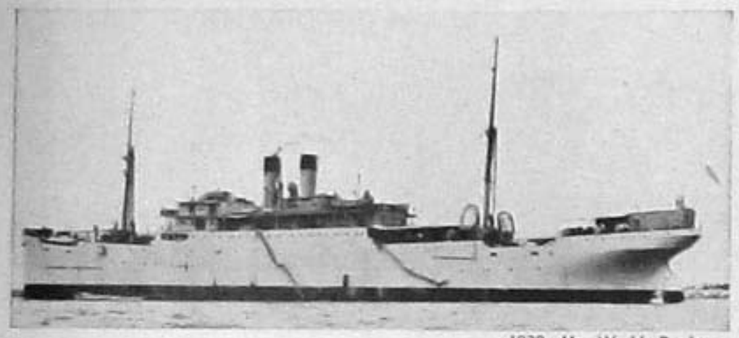
	CARABOBO	**JUNIN** (*ex-Boyaca*)	**PICHINCHA**
Displacement		120 tons	
Dimensions :		100 × 20 × 8½ feet	
Guns :		1—3 inch, 1—20 mm. AA., 2 M.G.	
Machinery :		Triple expansion. Speed: 12 kts.	
Boilers :		1 Thornycroft oil-burning water-tube	
Oil fuel :		50 tons	

Notes.—Built by Chantiers et Ateliers de St. Nazaire (Penhoët), Rouen. Launched 8 Aug., 8 July, and 5 Sep., 1925, respectively.

Transports.

ALBERTO GOMEZ (building)
HERNANDO GUTIERREZ (1953) **MARIO SERPO** (1953)

Displacement :	70 tons
Dimensions :	82 × 18 × 2½ feet
Machinery :	2 G.M. diesels. B.H.P. : 130 = 9 kts.



1938, *Mr. W. H. Davis.*

CUCUTA (*ex-Commercial Traveller, ex-Crofton Hall*)

Displacement :	12,000 tons (5,378 tons gross)
Dimensions :	405 × 52 × 26½ feet
Machinery :	Triple expansion. I.H.P. : 3,000 = 10 kts.
Boilers :	4. Oil fuel
Complement :	123

Notes.—Built by Hamilton, Glasgow. Launched 1913.

CIUDAD DE PEREIRA

Notes.—Light naval transport. Former U.S. Army freight ship FS-139.

Oilers.

SANCHO JIMENO (purchased 1952)

Displacement :	6,000 tons
Dimensions :	325 × 48 × 19 feet
Machinery :	1 Enterprise engine. B.H.P. : 1,400 = 11 kts.
Complement :	35

1948, *Official.*

BLAS DE LEZO (*ex-U.S.S. Kalamazoo, AOG 30*)

Builders :	East Coast S.Y.
Launched :	30 Aug., 1944
Displacement :	700 tons (Cargo capacity : 1,228 tons)
Dimensions :	212½ (*w.l.*), 220½ (*o.a.*) × 37 × 12½ feet
Machinery :	Diesel. B.H.P. : 800 = 9·5 kts
Oil fuel :	60 tons
Complement :	67

1943, *Official.*

CABIMAS

Builders :	Palmers, Hebburn-on-Tyne
Launched :	1924
Displacement :	2,900 tons
Dimensions :	290 (*o.a.*) × 47 × 14½ feet
Machinery :	Triple expansion. I.H.P. : 1,025 = 10 kts.
Fuel :	142 tons (re-boilered 1951)
Complement:	123

Hospital Ship.

JAMARY

Dimensions :	146 × 25½ × 8 feet
Complement :	43

Note.—Beds for 80 patients.

Tugs.

CAPITÁN BOCANEGRA **CAPITÁN RIGOBERTO GIRALDO**
CAPITÁN JULIO PATIÑO **CAPITÁN RUIZ**

Displacement :	50 tons
Dimensions :	63 × 14 × 2½ feet
Machinery :	2 G.M. Diesels. B.H.P. : 260

CORONEL MORA ANGUEYRA

Launched :	1945
Displacement :	20 tons
Machinery :	Diesel. B.H.P. : 84 = 10 kts.

ANDAGOYA

Launched :	1928
Displacement :	103 tons
Machinery :	Bolinder Diesel. B.H.P. : 300 = 12 kts.

1948, *Official*

DELAMAR

Launched	1919
Displacement :	183 tons
Dimensions :	101 × 23½ × — feet
Machinery :	Triple expansion. I.H.P. : 500
Complement :	25

BOGOTA

Launched :	1907
Displacement :	200 tons
Machinery :	Triple expansion. I.H.P. : 380 = 10 kts.

ABDIA MENDEZ

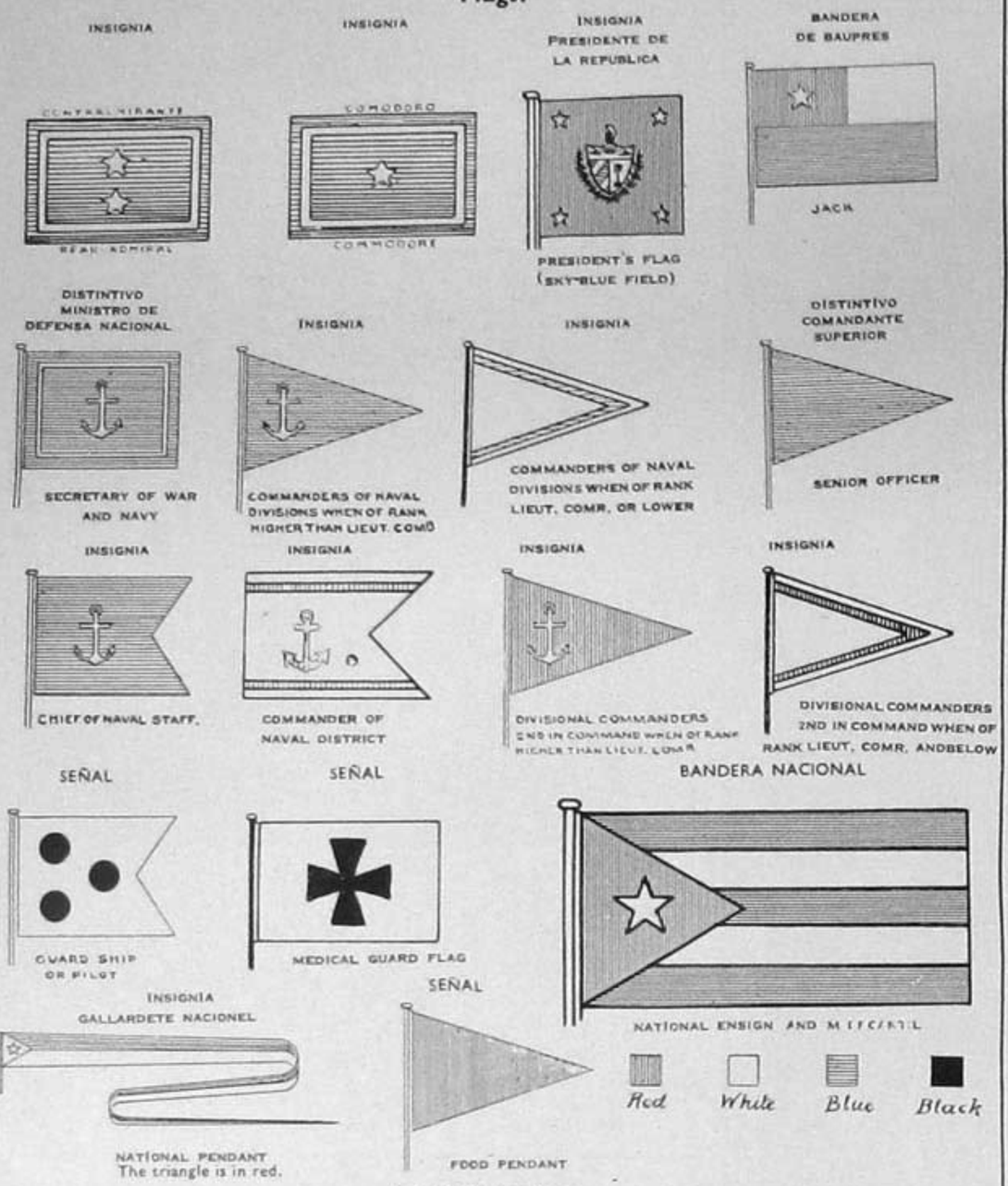
Dimensions :	52½ × 11 × 4 feet
Machinery :	Kromhout Diesel. B.H.P. : 100

Training Ship.

LA ATREVIDA (Ketch)

CUBA

Flags.



Administration.

Chief of Naval Staff : Contralmirante José E. Rodriguez Calderón, M.N.M.

Uniforms.

Contr-almirante	Comodoro	Capitán de Navio	Capitán de Fragata	Capitán de Corbeta	Teniente de Navio	Alférez de Navio	Alférez de Fragata	Aspirante	Sub-oficial
Rear-Admiral	*Commodore*	*Captain*	*Commander*	*Lieut.-Cmdr.*	*Lieutenant (Senior)*	*Lieutenant (Junior)*	*Sub-Lieutenant*	*Midshipman or Cadet*	*Branch Officer*

Note.—Blue shoulder-pieces having stripes in similar arrangement worn on white uniform and overcoat. Aspirantes, 1—4 stripes according to years of training. Rear-Admiral (Contralmirante) is temporary rank (Grado Transitorio).

Naval Establishments and Dockyards.

Naval Dockyard : In Arsenal de Casa Blanca, ex-Havana Marine Co. Dockyard. Marine Railway. 2,000 tons Actually not in service.

Private Dockyard : In Havana. Compania de Fomento. Marine Railway. 2,000 tons. In service.

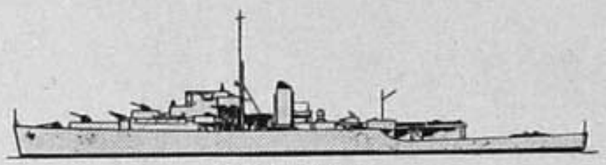
A Government dockyard is projected in Havana Bay, near Tiscornia. To have a 4,000-ton floating dock.

Naval Academy at Mariel. First Class Naval Institution.

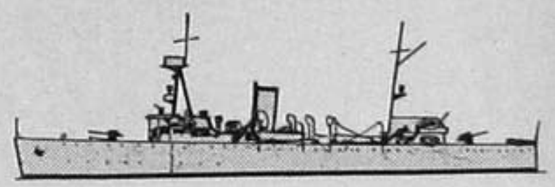
Personnel.

400 officers, 5,200 men

Silhouettes.

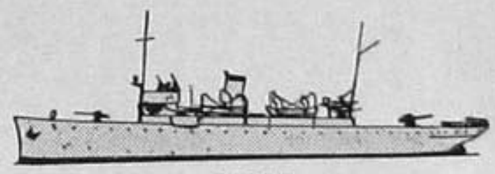


JOSÉ MARTÍ *Class.*



CUBA.

CARIBE, SIBONEY.



PATRIA.

Frigates (*Fragatas*).

ANTONIO MACEO. 1951, *Official.*

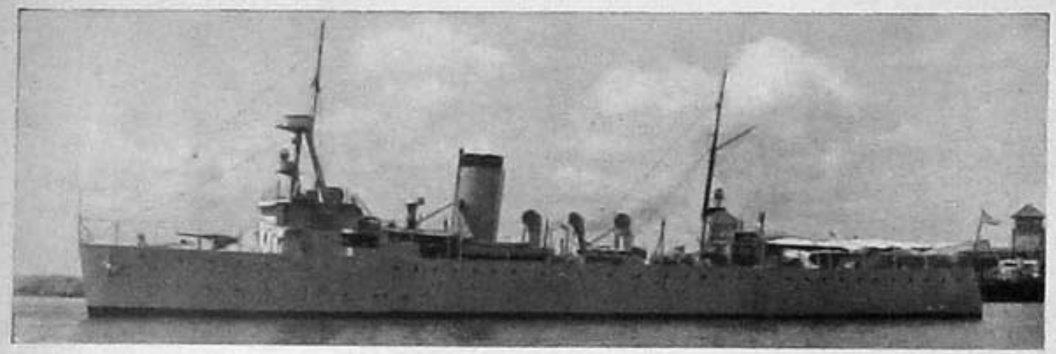
ANTONIO MACEO (*ex-Grand Island*) **JOSÉ MARTÍ** (*ex-Eugene*) **MÁXIMO GÓMÉZ** (*ex-Peoria*)

Displacement :	1,400 tons (2,350 tons *full load*)
Dimensions :	285 (*w.l.*), 304 (*o.a.*) × 37½ × 13¾ feet
Guns :	3—3 inch d.p., 2—40 mm. AA., (except *Máximo Gómez*, 3—3 inch d.p., 8—20 mm. AA.)
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers :	2, of 3-drum type

Notes.—Acquired from U.S.N. in 1947. No pendant numbers. *José Martí* is fitted as flagship.

Name	*Builders*	*Launched*
Antonio Maceo	Kaiser Richmond, Cal.	19 Feb., 1944
José Martí	Consolidated Steel, San Pedro	6 Jul., 1943
Máximo Gómez	Leatham Smith, Superior	2 Oct., 1943

Frigate (Rated *as Crucero*).



1952, *Official.*

CUBA

Builders :	Cramp, Philadelphia
Launched :	10 Aug., 1911
Displacement :	2,055 tons
Dimensions :	260 (*pp.*) × 39 × 14 feet
Guns :	2—4 inch, 2—3 inch, 1—3 inch, 23 cal., 4—6 pdr., 3 M.G., 2 D.C.T.
Machinery :	Triple expansion. I.H.P. : 6,000 = 18 kts.
Boilers :	Babcock (oil burning)

Notes.—Reconstructed 1936-37. Converted from coal to oil burning.

Escort Patrol Vessels (*Buques de Patrulla y Escolta*).

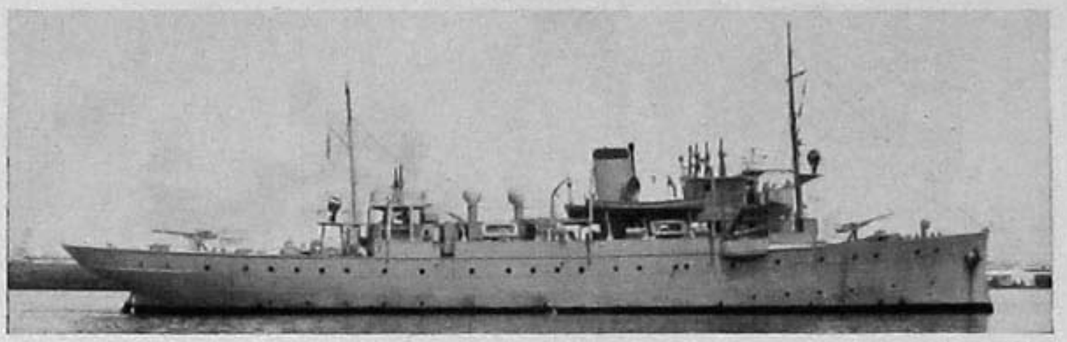
CARIBE. 1953, *Official.*

CARIBE (*ex-PCE 872*) **SIBONEY** (*ex-PCE 873*)

Displacement :	640 tons *standard*, (900 tons *full load*)
Dimensions :	180 (*w.l.*), 184½ (*o.a.*) × 33 × 9½ feet
Guns :	1—3 inch d.p., 3—40 mm. AA., 4—20 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 2,400 = 16 kts.
Complement :	99

Notes.—Built in U.S.A. Launched March 24 and May 5, 1943, respectively.

Training Ship (*Buque-Escuela*).



1952, *Official*

PATRIA

Builders :	Cramp, Philadelphia
Launched :	10 Aug., 1911
Displacement :	1,200 tons
Dimensions :	200 (*pp.*) × 36 × 13 feet
Guns :	2—3 inch (Bethlehem), 4—57 mm., 4—47 mm., 2—3 pdr.
Machinery :	Triple expansion I.H.P. : 4,000 = 16 kts.
Boilers :	Babcock (oil fuel)

Notes.—Ex-sloop. Reconstructed 1936-37. Former coal-burner of 150 tons capacity. Converted to oil fuel.

Surveying Vessel.

(Buque de Servicio Hidrográfico).

1952, *Official.*

YARA

Built :	Middlesbrough
Launched :	1895
Displacement :	449 tons
Dimensions :	155 × 26 × 13 feet
Machinery :	I.H.P. : 600 = 12 kts.
Oil fuel :	145 tons

Notes.—Originally coal-fired. Employed in Hydrographic service.

Presidential Yacht.

(Yate Presidencial).

1951, *Official.*

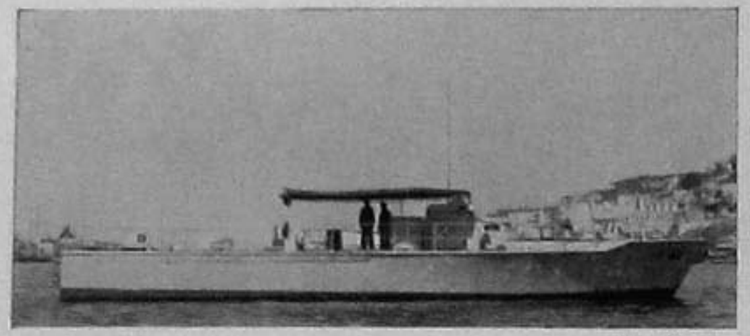
WAKITTY

Launched :	1929
Displacement :	57·7 tons
Dimensions :	74 × 15 × 5
Guns :	1 M.G.
Machinery :	2 Grey Marine Diesel engines. B.H.P. : 225

Note.—Built in U.S.A.

Motor Launches (Ex-Torpedo Boats).

(Buque-Auxiliar, Ex-Torpederos).



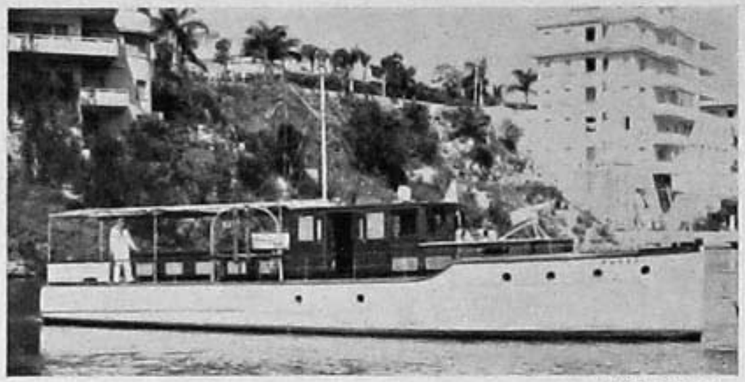
R 42 — 1949, *Official.*

	R 41	R 42
Displacement :	35 tons	
Dimensions :	71 × 19½ × 5 feet	
Guns :	2 M.G.	
Machinery :	3 Packard petrol engines. 3 shafts. B.H.P. : 3,600 = 40 kts. (*max.*)	

Notes.—Built in U.S.A. Launched 1944. Sunk during hurricane, Oct. 5, 1948, but were subsequently salvaged and are in service.

Auxiliary Vessels.

(Buque-Auxiliar).



1949, *Official.*

A 1 — A 2 — A 4

Notes.—Formerly yachts. Similar type to *Wakitty* in preceding column.

Lighthouse Tender.

(Buque de Servicio de Faros).

1953, *Official.*

ENRIQUE COLLAZO

Built :	London
Launched :	1906
Displacement :	815 tons
Dimensions :	211 × 34 × 9 feet
Machinery :	Triple expansion. 2 shafts I.H.P. : 672

Rescue and Salvage Tugs.

(Buque de Rescate y Salvamento).

20 DE MAYO. — 1943, *Official.*

	R.S. 10 DE OCTUBRE (ex-ATR 4)	R.S. 20 DE MAYO (ex-ATR 3)
Displacement :	852 tons	
Dimensions :	155 (w.l.), 165¼ (o.a.) × 33½ × 16 feet	
Guns :	1—3 inch d.p., 2—20 mm. in R.S. 20 De Mayo (only 2—20 mm. in R.S. 10 de Octubre)	
Machinery:	Triple expansion. I.H.P. : 1,600 = 12 kts.	
Boilers :	1 Babcock & Wilcox and 1 Foster Wheeler, respectively. Oil fuel	

Notes.—Built in U.S.A. Launched 1943. Wood.

247R

Coast Guard Patrol Vessels.

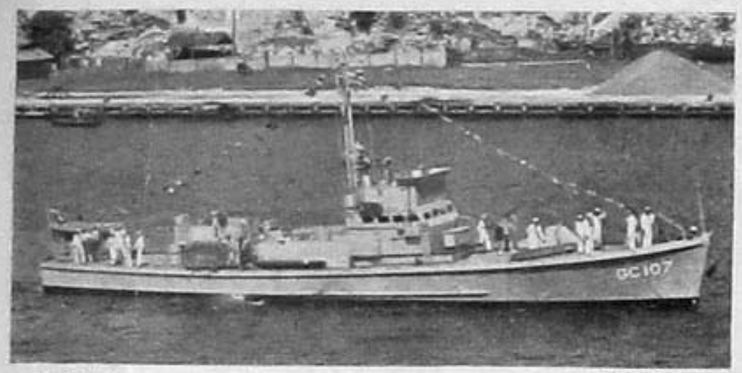
(*Guardacostas*).

LEONCIO PRADO. 1552, *Official.*

LEONCIO PRADO GC 101

Built :	Havana
Launched :	1946
Displacement :	80 tons
Dimensions :	110 × 14¾ × 6½ feet
Guns :	1—20 mm. AA.
Machinery :	2 sets 8-cycle, 2-stroke Diesels. B.H.P. : 1,000 = 15·8 kts.
Oil :	2,232 gallons for a cruising radius of 14,000 miles

Note.—Wooden hulled.



HABANA. 1948, *Official.*

CAMAGUEY GC 105 (*ex-SC* 1001) **ORIENTE** GC 104 (*ex-SC* 1000)
HABANA GC 107 (*ex-SC* 1291) **PINAR DEL RIO** GC 108 (*ex-SC*)
LAS VILLAS GC 106 (*ex-SC* 1290)

Displacement :	95 tons
Dimensions :	107½ (*w.l.*), 111 (*o.a.*) × 17 × 6½ feet
Guns :	2—20 mm. AA.
Machinery :	G.M. Diesels. 2 shafts. B.H.P. : 800 = 15 kts.

Notes.—Built in U.S.A. Wooden hulled. Launched 1942-43

Coast Guard Cutters.

(*Guardacostas*, 83 *ft*).

GC 33. 1949, *Official.*

GC 32 **GC 33** **GC 34**

Displacement :	45 tons
Dimensions:	83 × 16 × 4½ feet
Guns :	1—1 pdr.
Machinery :	2 Superior Diesel motors
Speed :	12 kts.
Complement :	12

Notes.—Built in U.S.A. Launched 1942-43. Ex-United States Coast Guard Cutters. Wood.

1951, *Official.*

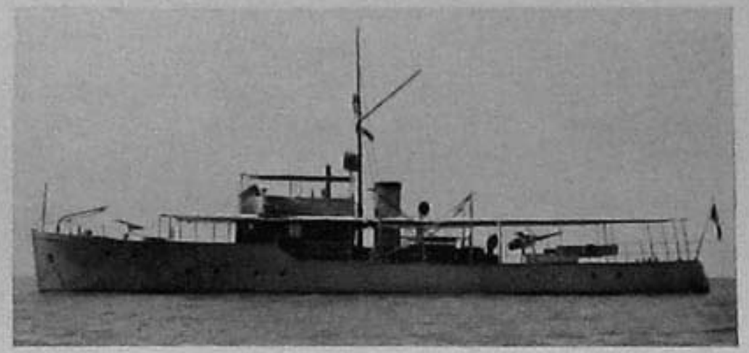
GC 11 **GC 1** **GC 13** **GC 14** **GC 22**

Displacement :	45 tons
Dimensions :	83 × 16 × 4½ feet
Guns :	1—1 pdr. Depth charges
Machinery :	2 Sterling petrol motors. H.P. : 1,200 = 18 kts.
Complement	12

Notes.—Former CS of same numbers. Built in U.S.A. Launched 1942-43. Ex-United States Coast Guard Cutters. Wood. Received from U.S. Navy in March, 1943.

Auxiliary Coast Guard Cutters.

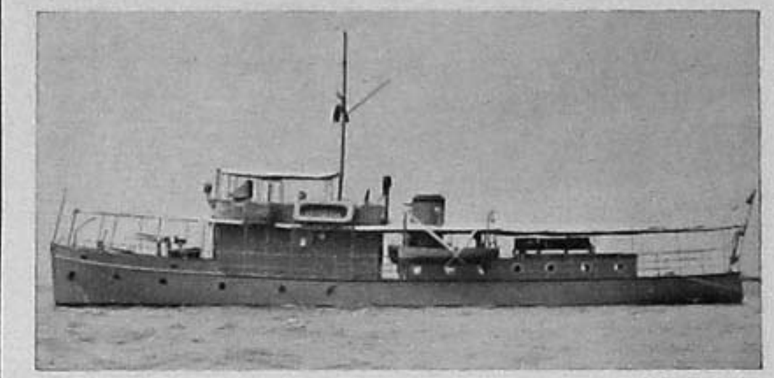
(*Guardacostas Auxiliares*).



DONATIVO. 1948, *Official.*

DONATIVO GC 102 (*ex-Capitan Fernandez Quevedo*)

Built :	Havana
Launched :	1932
Displacement	130 tons
Dimensions :	101 × 18 × 7 feet
Machinery :	2 sets Diesels. B.H.P. : 300 = 12 kts.



MATANZAS. 1948, *Official.*

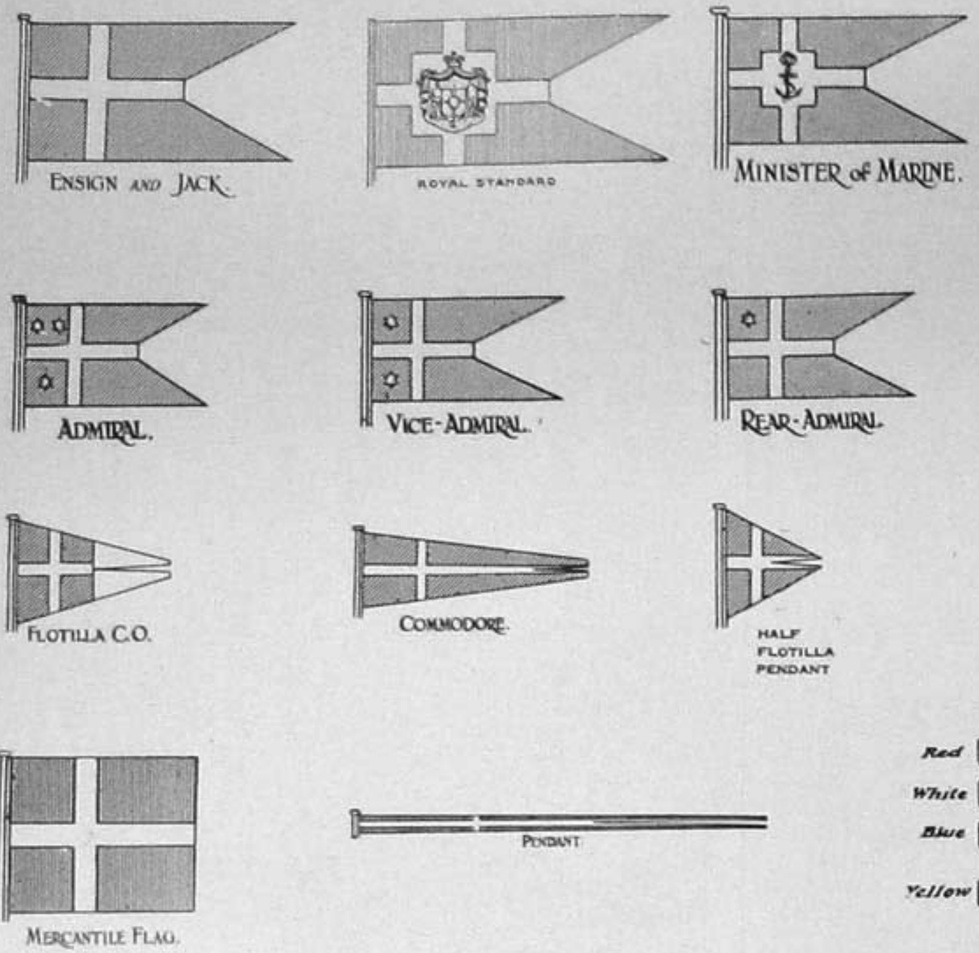
MATANZAS GC 103

Built :	Havana
Launched :	1912
Displacement :	80 tons
Dimensions :	100 × 18 × 6 feet
Guns :	1—1 pdr.
Machinery :	I.H.P. : 200 = 12 kts.
Coal :	20 tons

Note.—Wooden hulled.

DENMARK

Flags.

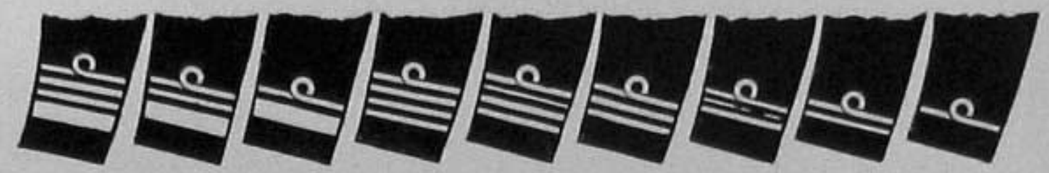


Ground colour of all flags is *red*. Diagonal shading in 8 of these should therefore be assumed as vertical.

Half Flotilla pendant when flying at the starboard yardarm on the foretop used as mark for *Senior Officer*.

The three broad pendants will be altered during the year, but alterations have not yet been officially promulgated.

Uniforms.



Admiral.	Vice-Admiral.	Kontre-Admiral.	Kommandör.	Kommandör kaptajn.	Orlogs-kaptajn.	Kaptajn-löjtnant.	Sölöjtnant 1° Grad.	Sölöjtnant 2° Grad.
Admiral.	*Vice-Admiral.*	*Rear-Admiral*	*Commodore.*	*Captain.*	*Commander.*	*Lieutenant-Commander.*	*Lieutenant.*	*Sub-Lieutenant.*

Notes.—Various changes were made in uniforms in 1952, Admiral, Vice-Admiral, and Rear-Admiral being given insignia of rank similar to those in the British Navy, i.e., one broad band on the sleeves surmounted by three, two and one stripes, respectively (see drawing above), with executive curl somewhat smaller and turned the other way. The rank of midshipman was abolished.

Administration

Minister of Defence : Mr. Harald Petersen.
Commander-in-Chief : Vice-Admiral A. H. Vedel, K.C.B., R.D.N.

Naval Attaché, London : Commodore J. H. J. Jegstrup, C.V.O., R.D.N.

Personnel.

About 6,000, all ranks.

Navy Estimates.

1950-51 : Kr. 88,800,00. 1951-52 : Kr. 95,500,000. 1952-53 : Kr. 120,000,000.

Ships.

In the following pages all displacements are "Standard." Where measurement of length is not stated it can be taken as between perpendiculars (*pp.*). All draughts *max. load aft* unless otherwise stated.

Danish warships are referred to officially with the prefix H.D.M.S. All have black waterline.

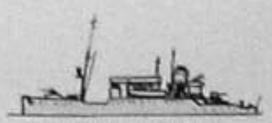
Mercantile Marine.

Lloyd's Register appendix, 1953 : 695 vessels of 1,390,516 tons *gross*.

Silhouettes

*Scale : 150 ft. = 1 inch.

HOLGER DANSKE, NIELS EBBESEN. *



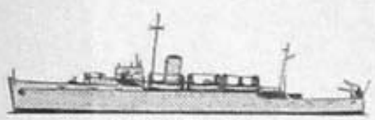
LINDORMEN. *

THETIS. *

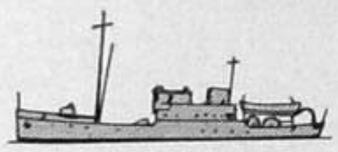
ÆGIR *

HUITFELDT, WILLEMOES. *

HEJMDAL. *



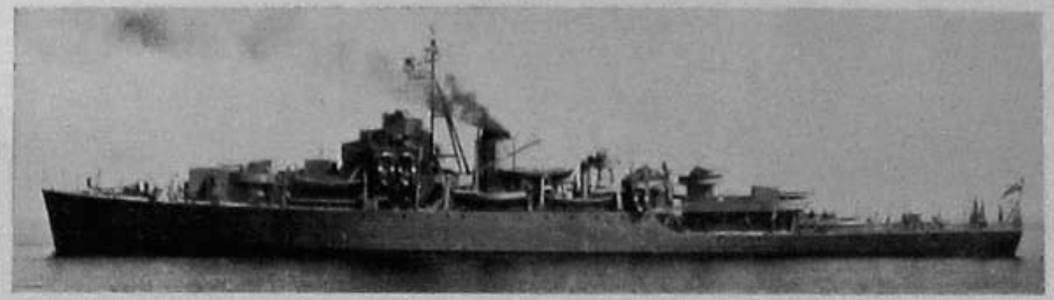
GALATHEA *



LAALAND.

Frigates.

2 Ex-British "River" Class



NIELS EBBESEN 1951, *courtesy Capt. R. Steen Steensen, R.D.N.*

HOLGER DANSKE (ex-H.M.S. *Monnow*) **NIELS EBBESEN** (ex-H.M.S. *Annan*)

Displacement :	1,398 tons (2,134 tons *full load*)
Dimensions :	301½ × 36½ × 12 feet
Guns :	2—5·1 inch, 2—57 mm. (saluting), 4—40 mm. AA., 2—20 mm. AA. Madsen
Tubes :	2—17·7 inch
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers :	2, of 3-drum type
Complement :	140

Notes.—Of the original frigates of the "River" Class. Purchased from Great Britain. Employed as sea-going Training Ships for midshipmen and for boys, respectively.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 338	*Holger Danske*	Charles Hill & Sons, Ltd.	28 Jun., 1943	4 Dec., 1943	11 May, 1944
F 339	*Niels Ebbesen*	Hall, Russell & Co., Ltd.	10 Jun., 1943	29 Dec., 1943	29 Jun., 1944

1 Ex-British "Flower" Class

1952, *Capt. R. Steen Steensen, R.D.N.*

THETIS (ex-H.M.S. *Geranium*)

Builders :	Wm. Simons & Co., Ltd.
Laid down :	21 Sep., 1939
Launched :	23 Apr., 1940
Completed :	24 Jun., 1940
Displacement :	1,000 tons (1,313 tons *full load*)
Dimensions :	190 (*pp.*), 205 (*o.a.*) × 33 × 14½ feet (*max.*)
Guns :	1—4 inch AA., 1—40 mm. AA., 4—40 mm. AA. Madsen
Machinery :	Triple expansion. I.H.P. : 2,750 = 16 kts.
Boilers :	2 S.E.
Oil fuel :	230 tons
Complement :	85

Notes.—Purchased from Great Britain. Operates in North Sea and off Faroes. Rebuilt and modernised, 1951-52. New boilers installed and funnel stepped a little more aft. Pendant No. F 340.

Frigates—*continued.*

3 Ex-British "Hunt" Class.

ESBERN SNARE (ex-H.M.S. *Blackmore*) **ROLF KRAKE** (ex-H.M.S. *Calpe*) **VALDEMAIR SEJR** (ex-H.M.S. *Exmoor*)

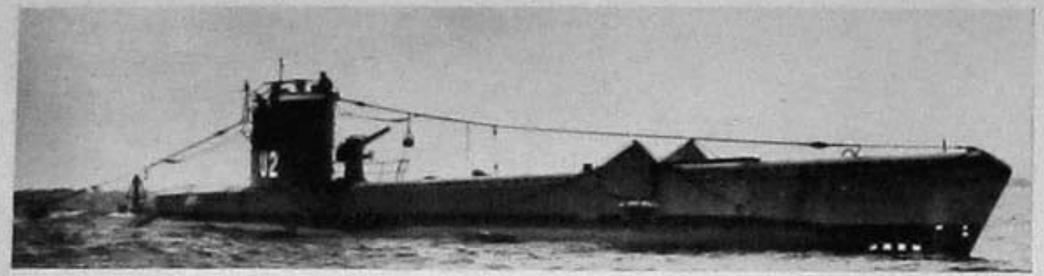
Displacement :	1,050 tons *standard* (1,610 tons *full load*)
Dimensions :	280 (*o.a.*) × 31½ × 14 (*max.*) feet
Guns :	6—4 inch AA., 4—2 pdr., 2—40 mm. AA.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 19,000 = 25 kts.
Boilers :	2 of 3-drum type
Oil fuel :	280 tons

Notes.—British "Hunt" class, type II. Lent by Great Britain in 1953 for 4 years. Now being refitted; funnels taken on shore, guns removed, etc. Reconstruction until end of 1953.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Esbern Snare	Alex. Stephen & Sons, Ltd., Glasgow.	10 Feb. 1941	2 Dec. 1941	14 Apr. 1942
Rolfe Krake	Swan, Hunter & Wigham Richardson, Ltd., Wallsend.	12 June 1940	28 Apr. 1941	11 Dec. 1941
Valdemar Sejr	Swan, Hunter & Wigham Richardson, Ltd., Wallsend.	7 June 1940	12 Mar. 1941	18 Oct. 1941

Submarines.

New Construction.—Three new submarines of approximately 600 tons displacement are to be built in the Royal Dockyard, Copenhagen



STØREN. 1951, *Capt. R. Steen Steensen, R.D.N.*

SÆLEN 1947, *Capt. R. Steen Steensen, R.D.N.*

SÆLEN (*ex-Morse, ex-H.M.S. Vortex*) **STØREN** (*ex-H.M.S. Vulpine*)

Displacement :	545 tons *standard*, 662 tons *surface*, 740 tons *submerged*
Dimensions :	206 × 16 × 14¾ feet
Guns :	1—3 inch, 3 M.G.
Tubes :	4—21 inch (or 6 mines)
Machinery	2 Davey Paxman Diesels, 2 electric motors. B.H.P. : 800/760 = 13/9 kts.
Fuel :	56 tons
Complement :	36

SPRINGEREN (*ex-Dzik, ex-P 52*)

Displacement :	540 tons *standard*, 644 tons *surface*, 732 tons *submerged*
Dimensions :	200 × 16 × 14¾ feet
Tubes :	4—21 inch
Machinery :	2 Davey Paxman Diesels, 2 electric motors. B.H.P. : 615/825 = 11/9 kts.
Fuel :	40 tons
Complement :	36

Notes.—All three boats chartered from Great Britain. Formerly known by U Nos., but now named after fish and sea animals. *Springeren* rebuilt and modernised with snort installed and no gun. *Sælen* and *Støren* being rebuilt in same way.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Sælen	Vickers-Armstrongs (Barrow)	13 Aug. 1943	19 Aug. 1944	1 Dec. 1944
Støren	Vickers-Armstrongs (Tyne)	18 Nov. 1942	28 Dec. 1943	2 June 1944
Springeren	Vickers-Armstrongs (Barrow)	30 Dec. 1941	11 Oct. 1942	16 Dec. 1942

Coastal Destroyers (*Kystjagere*).

2 "Huitfeldt" Class.

HUITFELDT. 1952, *courtesy Captain R. Steen Steensen, R.D.N.*

HUITFELDT (*ex-Nymfen*) **WILLEMOES** (*ex-Najaden*)

Displacement	782 tons *standard* (890 tons *full load*)
Dimensions :	283 (*o.a.*), 279 (*pp.*) × 27½ × 11½ feet
Guns :	2—4·1 inch, 3—40 mm. AA., 6—20 mm. Madsen
Tubes :	6—21 inch, 2 D.C.T.
Mines :	60
Machinery :	Geared turbines. 2 shafts. S.H.P. : 21,000 = 35 kts.
Oil fuel :	100 tons
Complement :	92

Notes.—Formerly known as Torpedo Boats. Reclassified as Coastal Destroyers in 1951. Named after Danish naval officers.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 320	*Huitfeldt*	Royal Dockyard, Copenhagen	1939	22 June, 1943	1947
D 321	*Willemoes*		1939	17 Mar., 1943	1947

Patrol Vessels

4 New Construction.

Notes.—2 escort patrol vessels, PCE 1608 and 1609, are building in the United States under the Mutual Defense Assistance Programme 2 PCE building in Denmark to complete 1954-55.

6 "Bille" Class

KRIEGER. 1948, *Capt. R. Steen Steensen.*

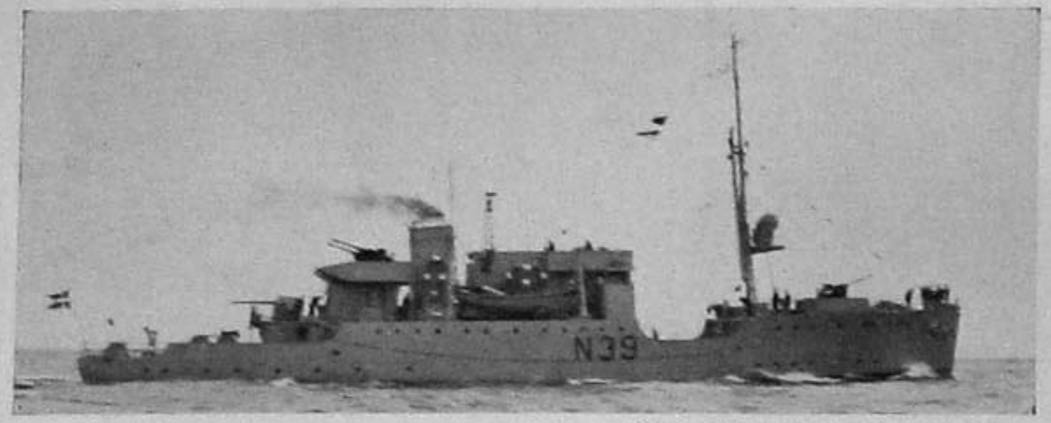
BILLE **BUHL** **HAMMER** **HOLM** **KRABBE** **KREIGER**

Displacement :	329 tons (382 tons *full load*)
Dimensions :	210 × 21 × 7¾ feet
Guns :	4—40 mm., 4—20 mm. AA. Madsen, etc.
A/S weapons :	2 D.C.T.
Machinery :	Danish Atlas geared turbines. 2 shafts. S.H.P. : 6,900 = 29 kts.

Notes.—Formerly known as Torpedo Boats. Reclassified as Patrol Vessels in 1952, and refitted for escort and A/S work with lattice mast. Torpedo tubes replaced by U.S. anti-aircraft weapons. All built at Royal Dockyard, Copenhagen. Named after naval officers.

Pendant No.	*Name*	*Launched*	*Pendant No.*	*Name*	*Launched*
P 570	*Bille*	21 Sep., 1946	P 573	*Holm*	5 Feb., 1948
P 571	*Buhl*	10 Sep., 1947	P 574	*Krabbe*	27 Jun., 1946
P 572	*Hammer*	23 Jun., 1948	P 575	*Krieger*	4 May, 1946

Minelayers (*Minelæggere*).



1952, *courtesy Capt. R. Steen Steensen, R.D.N.*

LINDORMEN

Builders :	Royal Dockyard, Copenhagen
Launched :	30 Mar., 1940
Displacement :	604 tons (645 tons *full load*)
Dimensions :	175½ (*o.a.*), 167½ (*pp.*) × 29 × 8 feet
Guns :	1—3 inch, 3—40 mm. AA., 2 MG.
Mines :	150
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,200 = 14 kts.
Boilers :	2 Thornycroft 3-drum type
Oil fuel :	35 tons
Complement :	66

Note.—Scuttled in Copenhagen Harbour, August 29, 1943, but was salved and refitted with a new rig. Pendant No. N 39.

Deep-sea Exploration Vessel.

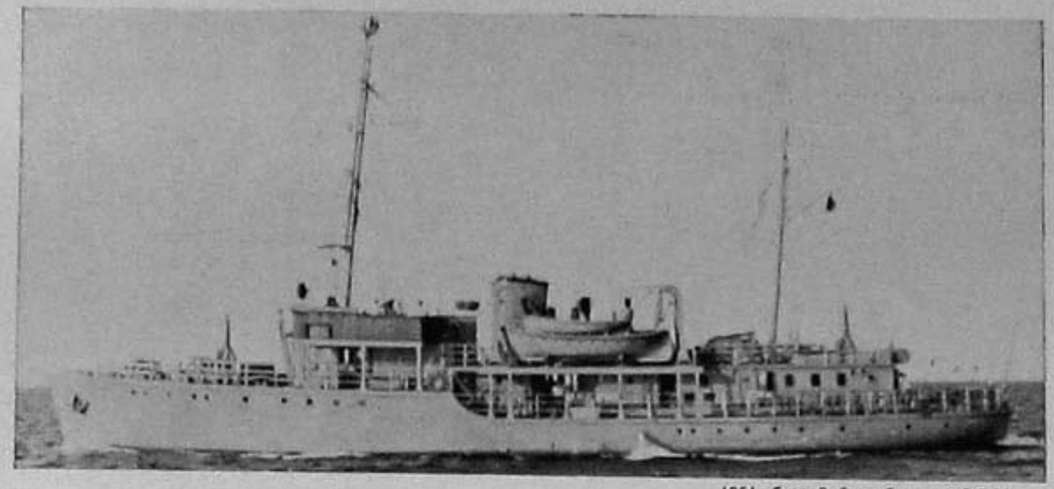
Added 1952, *R. M. Scott.*

GALATHEA (*ex-Friendship*, ex-merchant ship *Byron*, ex-sloop H.M.S. *Leith*)

Launched :	9 Sep., 1933
Displacement :	990 tons (1,500 tons *full load*)
Dimensions :	250 (*pp.*), 265¾ (*o.a.*) × 35¾ × 7½ (*mean*), 10 (*max.*) feet
Guns :	3—57 mm.
Speed :	16 kts.

Note.—Pendant No. A546.

Surveying Vessels (*Opmaalingsskib*).

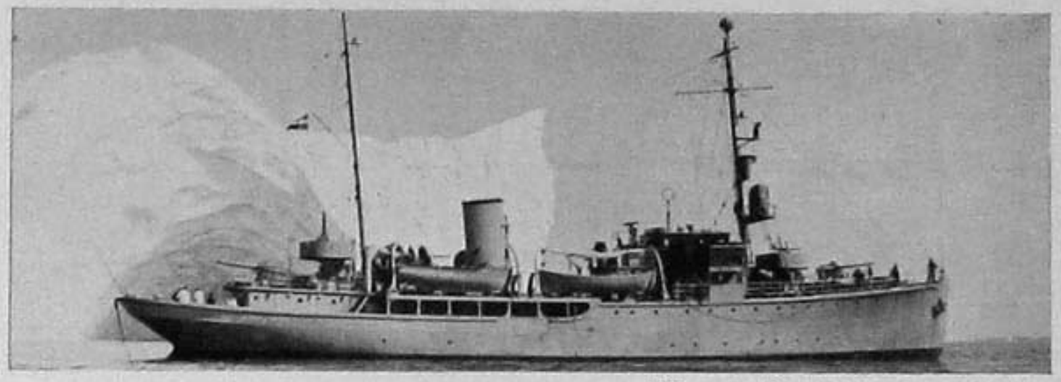


1951, *Capt. R. Steen Steensen, R.D.N.*

FREJA

Builders :	Royal Dockyard, Copenhagen
Launched :	22 Dec., 1938
Displacement :	322 tons
Dimensions :	124¾ (*pp.*) 134 (*o.a.*) × 25½ × 7½ feet
Guns :	2—20 mm. AA. (Not mounted when on Surveying Service)
Machinery :	Triple expansion. 1 shaft. I.H.P. : 300 = 10·5 kts.
Boilers :	1 cylindrical
Oil fuel :	15 tons
Complement :	40

Note.—Pendant No. A 541.



1952, *courtesy Captain R. Steen Steensen, R.D.N.*

HEJMDAL

Builders :	Royal Dockyard, Copenhagen
Launched :	1 Feb., 1935
Completed :	Apr., 1935
Displacement :	705 tons
Dimensions :	175 (*o.a.*) × 30 × 12 feet
Guns :	1—3 inch, 2—20 mm.
Machinery :	Triple expansion. 1 shaft. I.H.P. : 800 = 12·5 kts.
Boilers :	2 cylindrical
Oil fuel :	100 tons
Radius :	4,000 miles at 12 kts.
Complement :	40

Notes.—Classed as a Surveying Vessel, but also employed on Fishery Protection duties. Mainmast, removed during the war, re-stepped. Pendant No. A 542.

Motor Torpedo Boats.

New Construction

Note.—A number of new M.T.Bs. are being built to bring the total up to 24.

12 "Glenten" Class

SKADEN. 1952, *courtesy, Captain R. Steen Steensen, R.D.N.*

GLENTEN-P 551 (ex-*T* 51, ex-*S* 316)
GRIBBEN-P 552 (ex-*T* 52, ex-*S* 107)
HAVØRNEN-P 553 (ex-*T* 53, ex-*S* 216)
HÆRFUGLEN-P 554 (ex-*T* 54, ex-*S* 133)
HØGEN-P 555 (ex-*T* 55, ex-*S* 266)
ISFUGLEN-P556 (ex-*T* 56, ex-*S* 127)
JAGTFALKEN-P 557 (ex-*T* 57, ex-*S* 305)
MUSVAAGEN-P 558 (ex-*T* 58, ex-*S* 79)
RAAGEN-P 559 (ex-*T* 59, ex-*S* 197)
RAVNEN-P 560 (ex-*T* 60, ex-*S* 97)
SKADEN-P 561 (ex-*T* 61, ex-*S* 207)
VIBEN-P 568 (ex-*S* 68)

Displacement :	99 tons
Dimensions :	115 × 17½ × 6 feet
Guns :	1—40 mm., 3—20 mm. AA.
Tubes :	2—21 inch
Machinery :	3 Mercedes-Benz Diesels. B.H.P. : 6,000 = 36 kts.
Complement :	22

Notes.—Ex-German Schnell-boote. Now named after birds. *Roagen, T* 59 (ex-*S* 305) collided with British MTB 5518 in the North Sea during manoeuvres in Feb. 1951 and sank while under tow, but has been refitted. *Havörnen* grounded on Scroby sandbank 2 Dec. 1952. Refloated 14 Jan. 1953.

6 "Falken" Class.

FALKEN P 565 (ex-*Blink*, ex-*S* 302)
HEJREN P 566 (ex-*Tross*, ex-*S* 117)
LOMMEN P 567 (ex-*Kjekk*, ex-*S* 195)
STORMFUGLEN P 562 (ex-*Lyn*, ex-*S* 64)
TAARNFALKEN P 563 (ex-*Bronn*, ex-*S* 303)
TRANEN P 564 (ex-*Storm*, ex-*S* 85)

Displacement :	100 tons
Dimensions :	115 (*p.p.*), 121½ (*o.a.*) × 17 × 6 feet
Guns :	1—40 mm., 3—20 mm.
Tubes :	2—21 inch
Machinery :	3 Diesels. B.H.P. : 7,500 = 38 kts.

Notes.—Ex-German. All launched 1939-41. Transferred from Royal Norwegian Navy to Royal Danish Navy in 1951.

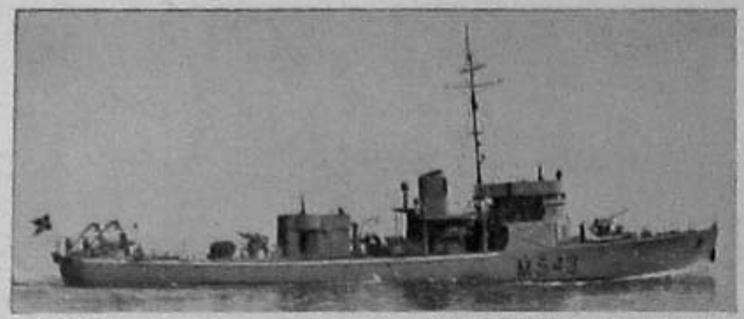
Auxiliary Motor Minesweepers

4 U.S. AMS Type.

Displacement :	375 tons
Dimensions :	138 (*p.p.*), 144 (*o.a.*) × 27 feet

Note.—AMS 60 class NATO auxiliary motor minesweepers AMS 127-130 building in U.S.A. Complete 1953-54

Coastal Minesweepers.



SÖLÖVEN. 1953, *Capt. R. Steen Steensen, R.D.N.*

SÖRIDDEREN. 1946, *Capt. R. Steen Steensen, R.D.N.*

SÖHESTEN **SÖHUNDEN** **SÖLÖVEN** **SÖRIDDEREN**

Displacement :	274 tons (315 tons *full load*)
Dimensions :	169 (*pp.*), 176½ (*o.a.*) × 20½ × 6½ feet
Guns :	2—40 mm. AA., 4—20 mm. AA., Bofors. 2 D.C.T.
Machinery :	Geared turbine. 1 shaft. S.H.P. : 2,200 = 19 kts.
Boiler :	1 Thornycroft 3-drum type
Oil fuel :	30 tons
Complement :	48

Notes.—All built at Royal Dockyard, Copenhagen. Equipped for minelaying. *Sölöven* means Sealion ; *Söhunden*, Seadog ; *Söridderen*, Sea Knight ; *Söhesten*, Seahorse.

Pendant No.	*Name*	*Launched*
M 541	*Söhesten*	30 Apr. 1942
M 542	*Söhunden*	16 May 1942
M 543	*Sölöven*	3 Dec. 1938
M 544	*Söridderen*	11 Apr. 1942

Motor Minesweepers.

AALHOLM Y 369 (ex-*MSK* 1)
BIRKHOLM Y 370 (ex-*MSK* 2)
ERTHOLM Y 371 (ex-*MSK* 3)

Displacement :	68 tons
Dimensions :	65½ × 16½ × 7½ feet
Guns :	1—20 mm. A.A.
Machinery :	Diesel. B.H.P. : 120 = 10 kts.

Notes.—Built by Frederikssundvaerft. All launched 1945.

FYRHOLM Y 372 (ex-*MSK* 4
GRÆSHOLM Y 373 (ex-*MSK* 5)
LINDHOLM Y 374 (ex-*MSK* 6)

Displacement :	70 tons
Dimensions :	69 × 17 × 9 feet
Guns :	1—20 mm. AA.
Machinery :	Diesel. B.H.P. : 120 = 10 kts.

Notes.—Built by Sydhavnsvaerft. All launched 1944-45.

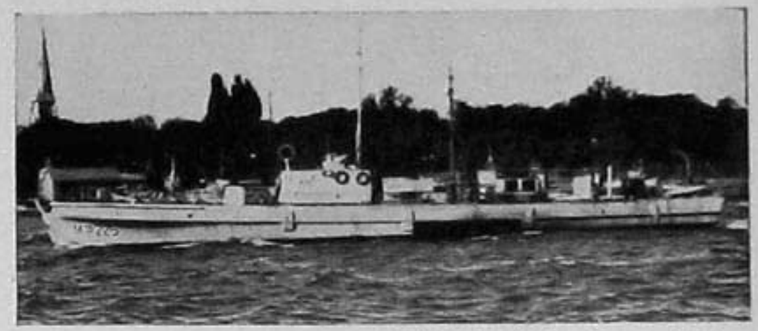
Motor Minesweepers—*continued.*

VORNÆS. 1953, *Capt. R. Steen Steensen, R.D.N.*

STIGSNÆS M 554 (ex-MR 230)
TRELLENÆS M 555 (ex-MR 236)
VORNÆS M 556 (ex-MR 242)

Displacement :	150 tons
Dimensions :	129½ × 18½ × 5½ feet
Guns :	2—20 mm. AA. Madsen.
Machinery :	Diesel. B.H.P. : 2,800 = 23 kts.
Fuel :	14 tons
Complement :	21

Notes.—Ex-German craft. Wood. All launched 1943-44. MR 229 scrapped 1951.



1946, *Capt. R. Steen Steensen, R.D.N.*

ASNÆS M 547 (ex-MR 154)
BOGNÆS M 548 (ex-MR 155)
DYRNÆS M 549 (ex-MR 156)
EGENÆS M 550 (ex-MR 157)
HELGENÆS M 551 (ex-MR 167)
LYNÆS M 552 (ex-MR 168)
RINKENÆS M 553 (ex-MR 174)

Displacement :	124 tons
Guns :	1 or 2—20 mm. AA.
Machinery :	Diesel. B.H.P. : 1,800 = 28 kts.
Oil fuel :	10 tons
Complement :	19

Notes.—Ex-German craft. Wood. All launched 1938-43. MR 152, 173, 214 scrapped 1951.

GRAADYB M 568 (ex-ML 1)
KLÖRDYB M 569 (ex-ML 2)
VEJDYB M 570 (ex-ML 3)

Displacement :	21 tons
Dimensions :	50 × 13½ × 3½ feet

Note.—All launched 1944.

Motor Minesweepers—*continued.*

STRYNØ. 1953, *Capt. R. Steen Steensen, R.D.N.*

SORTE SARA M 559 (ex-MS 1) **ENØ** M 562 (ex-MS 5) **LYØ** M 565 (ex-MS 8)
ASKØ M 560 (ex-MS 2) **FÆN-Ø** M 563 (ex MS 6) **MANØ** M 566 (ex-MS 9)
BAAGØ M 561 (ex-MS 3) **HJORTØ** M 564 (ex-MS 7) **STRYNØ** M 567 (ex-MS 10)

Displacement :	74 tons
Dimensions :	78½ × 21 × 5 feet
Guns :	1—20 mm., 2 M.G.
Machinery :	Diesel. 1 shaft. B.H.P. : 350 = 11 kts.

Notes.—Wood. All launched 1941. MS 4 was scuttled in Aug. 1943.

Depot Ships.

HJÆLPEREN (ex-U.S. *LSM* 500)

Displacement :	743 tons (1,095 tons *full load*)
Dimensions :	203½ (*o.a.*) × 34½ × 8½ feet
Guns :	2—40 mm.
Machinery :	Diesels. 2 shafts. B.H.P. : 2,800 = 12 kts.
Complement :	60

Note.—Ex-United States medium landing ship. Depot ship for M.T.Bs.

1952, *courtesy Capt. R. Steen Steensen, R.D.N.*

ÆGIR (*ex-Tanga*)

Builders :	Neptun Werft, Rostock
Launched :	1938
Displacement :	2,620 tons
Dimensions :	299 (311½*o.a.*) × 44½ × 13½ feet
Guns :	2—5·1 inch, 6—40 mm. AA
Machinery :	2 M.A.N. Diesels. B.H.P. : 4,100 = 17·5 kts.

Notes.—Ex-German depot ship. Purchased and renamed. Refitted, rearmed and modernised. As rebuilt has a new lattice mast, and new anti-aircraft armament. Reconstruction completed in June 1951. Pendant No. A 560.

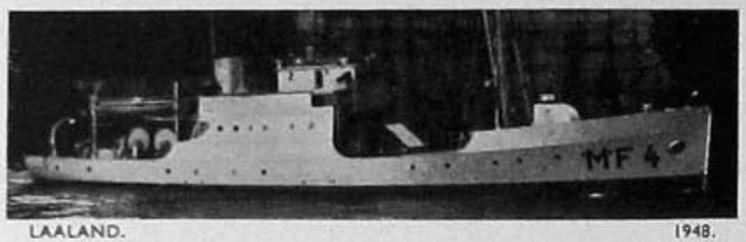
Mining Tenders (*Minefartöjer*).

1951, *Capt. R. Steen Steenson.*

LANGELAND

Builders :	Royal Dockyard, Copenhagen
Launched :	17 May, 1950
Displacement :	309·5 tons *standard*, 323 tons *full load*
Dimensions :	133½ (*o.a.*), 128½ (*pp.*) × 23½ × 7½ feet
Guns :	2—40 mm., 2—20 mm. Madsen
Machinery :	Diesel. 2 shafts. B.H.P. : 385 = 11.6 kts.
Complement :	37

Note.—Pendant No. N 42.



LAALAND. 1948.

LAALAND **LOUGEN**

Displacement :	240 tons
Dimensions :	105½ × 21½ × 6½ feet
Guns :	2—20 m.m. AA.
Machinery :	B. & W. Diesel. 1 shaft. B.H.P. : 350 = 10 kts.
Compliment :	31

Notes.—Built by Copenhagen Naval Yard. Both launched 1941. Pendant Nos. N 40 and N 41, respectively.

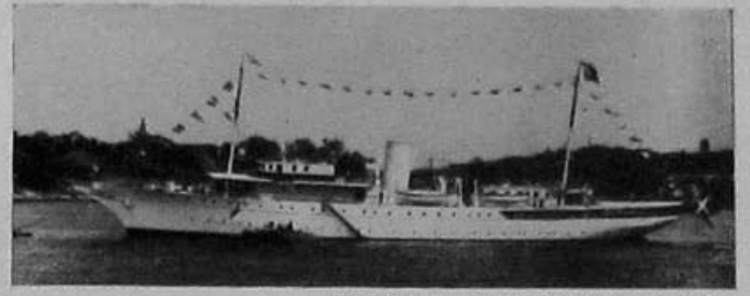
Tenders.

HOLLÆNDERDYBET (*ex-Den Lille Havfrue*)
KONGEDYBET (*ex-Kirsten Piil*)

Displacement :	158 tons *full load* (88 tons *gross*)
Dimensions :	150 × 19 × 7½ feet
Machinery :	Diesel

Notes.—Both launched 1935. Manned by Coast Artillery personnel. Used for transport purposes.

Royal Yacht (*Kongeskib*).



Added 1950, courtesy Sub-Lieut. A. Sugden, R.N.

DANNEBROG

Builders :	Royal Dockyard, Copenhagen
Launched :	1931
Displacement :	1,130 tons
Dimensions :	246 (*o.a.*) × 34 × 11½ feet
Guns :	2—37 mm.
Machinery :	2 sets Burmeister & Wain 8-cylinder, 2-cycle Diesels B.H.P. : 1,800 = 14 kts.
Complement :	57

Fishery Patrol Craft (*Fiskeriinspektionsfartöjer*).

SKARVEN **TEJSTEN**

Displacement :	130 tons
Dimensions :	82 × 20½ × 9½ feet
Guns :	1—37 mm.
Machinery :	Alfa Diesel. B.H.P. : 180
Complement :	9

Notes.—Of wooden construction. Built by Lilleværft, Koriör, and Holbæck Skibsbyggeri respectively. Launched 1951. For service in Greenland waters.

MAAGEN

Builders :	Frederikssund
Launched :	1930
Displacement :	90 tons
Dimensions :	71½ (*o.a.*) × 16½ × 9½ feet
Guns :	1—37 mm.
Machinery :	1 Tuxham motor. B.H.P. : 108 = 8 kts.
Complement :	11

Notes.—Of wooden construction. For service in Greenland waters. Alken wrecked off coast of Greenland in a gale, 1949.

Surveying Tender (*Opmaalingsfartöj*).

TERNEN

Built :	Faaborg
Launched :	1937
Displacement :	82 tons
Dimensions :	68½ (*o.a.*) × 16½ × 9½ feet
Guns :	3—37 mm.
Machinery :	1 Möller & Jochumsen Diesel engine. B.H.P. : 110 = 8 kts.
Complement :	11

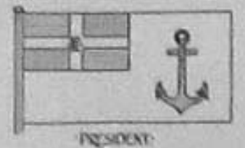
Notes.—Wood. Employed on fishery research and coastal surveying duties, Greenland.

DOMINICAN REPUBLIC

Flags.

ENSIGN

JACK


PRESIDENT

COMMANDER-IN-CHIEF

SECRETARY OF THE NAVY

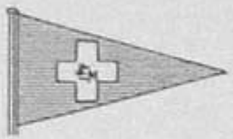
UNDER SECRETARY OF THE NAVY

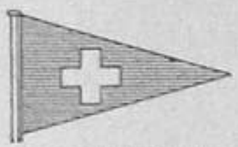
ADMIRAL

VICE-ADMIRAL

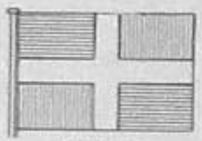
REAR-ADMIRAL

COMMODORE


CHIEF OF THE NAVAL STAFF


SENIOR OFFICER OF NAVAL BASE OR ESTABLISHMENT

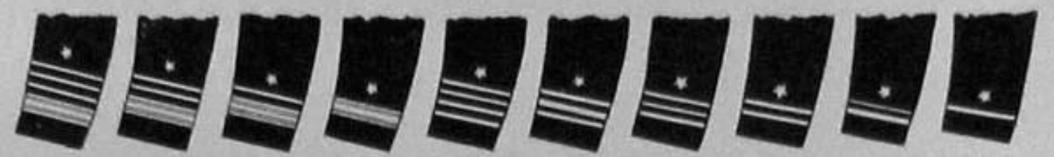
PENDANT


MERCANTILE

Administration.

President and Supreme Chief of Naval Forces : General Hector Bienvenido Trujillo Molina.
Commander-in-Chief of Naval Forces : Generalissimo Dr. Rafael Leonidas Trujillo Molina.
Secretary of State for War, Marine and Aviation : Lieutenant-General Fausto E. Caamaño.
Chief of Naval Staff : Rear Admiral César de Windt Lavandier.

Uniforms


ALMIRANTE. VICE-ALMIRANTE. CONTRA-ALMIRANTE. COMODORO. CAPITAN DE NAVIO. CAPITAN DE FRAGATA. CAPITAN DE CORBETA. TENIENTE DE NAVIO. ALFEREZ DE NAVIO. ALFEREZ DE FRAGATA

British Equivalent :									
Admiral.	*Vice-Admiral.*	*Rear-Admiral.*	*Commodore.*	*Captain.*	*Commander.*	*Lieut.-Commander.*	*Lieutenant.*	*Lieutenant (junior).*	*Sub.-Lieutenant.*

Note.—Midshipman (*Guardia Marina*) wears anchor on sleeve.

Dry Docks.

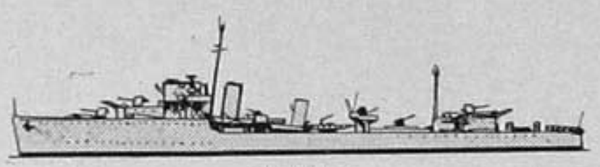
Naval Base of Las Calderas, 200 feet long, 48½ feet internal width, 65½ feet overall width, draught 4 feet. Capacity 1,000 tons.

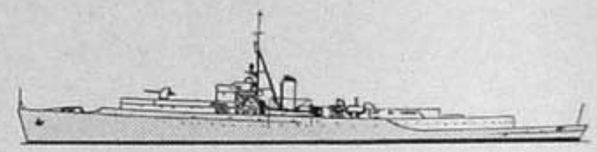
Port of San Pedro de Macoris, 384 feet long, 46½ internal width, 77 feet overall width. Capacity 3,000 tons.

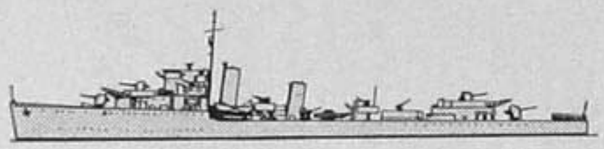
Naval Personnel.

3,000 officers and men.

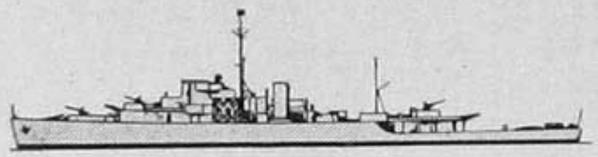
Silhouettes.

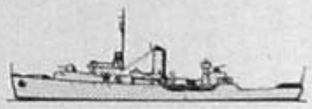

TRUJILLO.


PRESIDENTE TRUJILLO.


GENERALISIMO

JUAN PABLO DUARTE.


PRESIDENTE PEYNADO, PRESIDENTE TRONCOSO.


COLON *Class* (differ in detail)

Destroyers (*Destructores*).

2 Ex-British Type.

TRUJILLO 1951, *Official.*

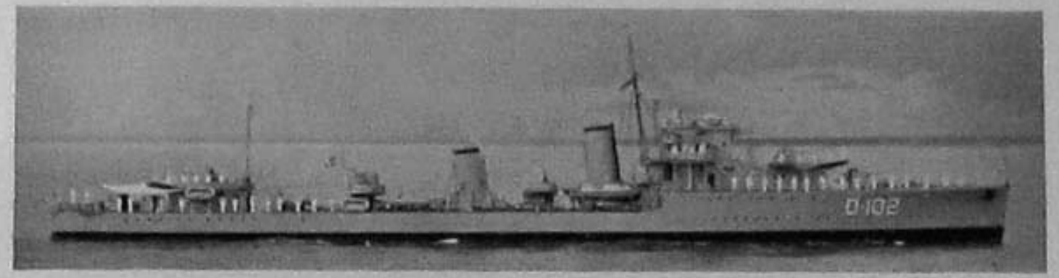
TRUJILLO (*ex-Hotspur*)

Builders :	Scott's, Shipbuilding & Engineering Co., Ltd. Greenock
Laid down :	27 Feb., 1935
Launched :	23 Mar., 1936
Completed :	29 Dec., 1936

Displacement :	1,340 tons (2,020 tons *full load*)
Dimensions :	312 (*pp.*), 320 (*w.l.*), 323 (*o.a.*) × 33 × 8½ feet (*mean*)
Guns :	3—4·7 inch, 6—20 mm. AA.
Tubes :	4—21 inch,
A/S weapons :	4 D.C.T.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 34,000 = 36 kts. (31 kts. sea speed)
Boilers :	3 Admiralty 3-drum type
Oil fuel :	455 tons
Complement :	145

Notes.—Purchased from Great Britain, Nov. 1948. Radius of action 5,700 miles, at 15 knots : Pendant No. D 101.

Destroyers—*continued.*



1953, *Official.*

GENERALISIMO (*ex-Fame*)

Builders :	Vickers-Armstrongs, Ltd., Barrow
Laid down :	5 Jul., 1933
Launched :	28 Jun., 1934
Completed :	26 Apr., 1935

Displacement :	1,350 tons (2,060 tons *full load*)
Dimensions :	318½ (*pp.*), 326 (*w.l.*), 329 (*o.a.*) × 33½ × 8½ feet (*mean*)
Guns :	3—4·7 inch, 6—20 mm. AA.
Tubes :	4—21 inch, 4 D.C.T.
Machinery :	Parsons geared turbines (by Parsons Co.). S.H.P. : 36,000 = 36 kts.
Boilers :	3 Admiralty 3-drum type
Oil fuel :	480 tons

Notes.—Transferred from British Navy, Feb. 1949. Radius of action : 6,000 miles at 15 knots. Pendant No. D 102.

Frigates (*Fragatas*).

1950, *Official.*

PRESIDENTE TRUJILLO (*ex-H.M.C.S. Carlplace*)

Builders :	Davie S.B. and Repairing Co., Lauzon.
Launched :	6 July, 1944.

Displacement	1,400 tons (2,125 tons *full load*)
Dimensions :	301½ × 36½ × 12 (*mean*) feet
Guns :	1—4 inch, 2—47 mm., 1—40 mm. AA., and few small
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers :	2, of 3-drum type
Fuel :	645 tons

Notes.—Modified for use as Presidential Yacht with extra accommodation and deck-houses built up aft. Pendant No. F 101.

Frigates—*continued.*

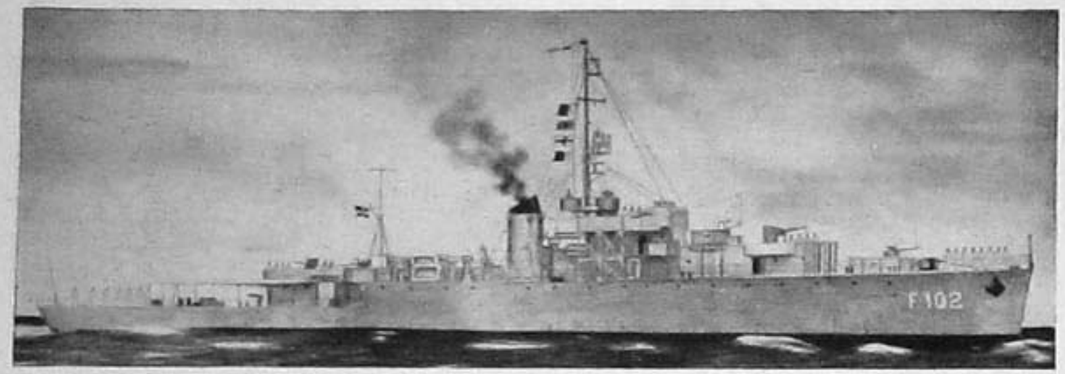
PRESIDENTE TRONCOSO 1953, *Official*

PRESIDENTE PEYNADO (*ex-U.S.S. Knoxville*) **PRESIDENTE TRONCOSO** (*ex-U.S.S. Pueblo*)

Displacement :	1,430 tons (2,415 tons *full load*)
Dimensions :	304 (*o.a.*) × 37½ × 12 feet
Guns :	1—4 inch, 2—3 inch, 2—40 mm.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 19 kts.

Note.—Pendant Nos. F 104, F 103, respectively.

Name	*Builders*	*Launched*
Presidente Peynado	Leatham Smith S.B. Co.	17 July 1943
Presidente Troncoso	Kaiser S.Y. Richmond, Cal	20 Jan. 1944



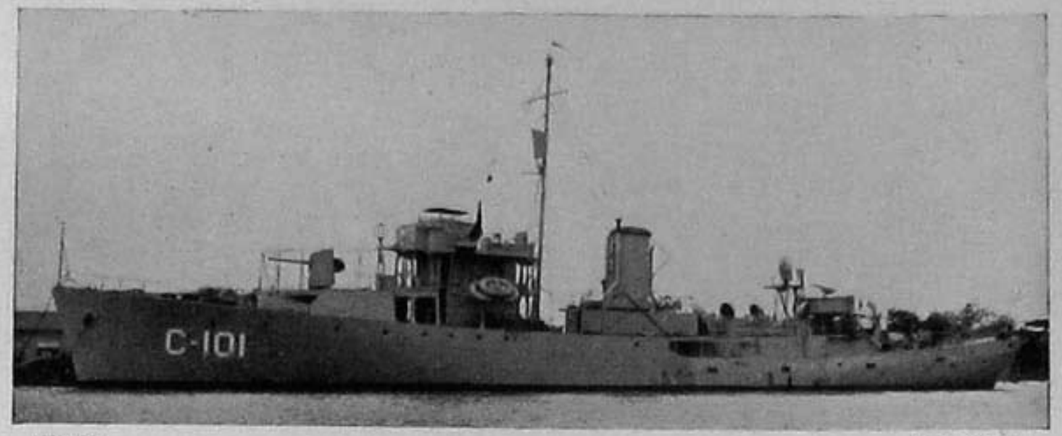
JUAN PABLO DUARTE. 1953, *Official.*

JUAN PABLO DUARTE (*ex-U.S.S. Natchez, ex-H.M.S. Annan*)

Builders :	Canadian Vickers
Launched :	12 Sept. 1942
Displacement :	1,370 tons (2,220 tons *full load*)
Dimensions :	301½ × 36½ × 11½ feet
Guns :	1—4 inch, 2—3 inch, 2—40 mm.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts
Complement :	90

Note.—Pendant No. F 102.

Frigates (Rated as *Corbetas*).



COLON. 1951, *Official.*

JUAN BAUTISTA MAGGIOLO. 1951, *Official.*

COLON (*ex-H.M.C.S. Lachute*, June 9, 1944)
GERARDO JANSEN (*ex-Peterborough*, Jan. 15, 1944)
JUAN ALEJANDRO ACOSTA (*ex-Louisburgh*, July 13, 1943)
JUAN BAUTISTA CAMBIASO (*ex-Belleville*, June 17, 1944)
JUAN BAUTISTA MAGGIOLO (*ex-Rivière du Loup*, July 2, 1943

Displacement :	1,060 tons (1,350 *full load*)
Dimensions :	193 (*pp.*), 208 (*o.a.*) × 33 × 13½ (*mean*) feet
Guns :	1—4 inch AA., (*Colon*, 1—3 inch), 1—40 mm., 2—20 mm. AA., 2 M.G.
Machinery :	Triple expansion. I.H.P. : 2,750 = 16 kts.
Boilers :	2, of 3-drum type
Oil fuel :	282 tons
Complement :	53

Notes.—Launch dates above. Pendant Nos. C 101-105. *Asbestos wrecked en route from Canada.*

Patrol Vessels (*Patrulleros*).

27 DE FEBRERO. 1951, *Official*.

27 DE FEBRERO (*ex-PC* 613, Oct. 27., 1942)
CAPITAN WENCESLAO ARVELO (*ex-PC* 1202, Feb. 27, 1943)

CIBAO (*ex-Engage, ex-PC* 1597, July 11, 1942)

Displacement:	280 tons (450 tons *full load*)
Dimensions :	170 (*w.l.*), 173½ × 23 × 7½ feet
Guns :	1—3 inch, 50 cal., 1—40 mm. AA., 1—20 mm. AA.
Machinery :	Diesels. 2 shafts. B.H.P. : 3,750 = 22 kts.
Complement:	50

Notes.—Launch dates above. Pendant Nos. P 101, P 102, P 103, respectively.

RESTAURACION. 1951, *Official*.

INDEPENDENCIA (ex- U.S. C.G.C. *Icarus*)

LIBERTAD (*ex-Rafael Atoa, ex-U.S. C.G.C. Thetis*)
RESTAURACION (*ex-U.S. C.G.C. Galathea*)

Displacement	334-337 tons
Dimensions :	165 × 25½ × 9½ feet
Guns :	1—3 inch, 1—40 mm., 1—20 mm.
Machinery :	2 Diesels. B.H.P. : 1,280 = 15 kts.
Complement :	35

Notes.—All launched 1931-32. Ex-United States Coastguard Cutters. Pendant Nos. P 105, P 106, P 104, respectively.

Infantry Landing Craft (*Barcazas de Desembarco de Infanteria*).

BDI 101. 1953, *Official*.

BDI 101 (ex-*LCI* (L) 40, Dec. 1, 1942)

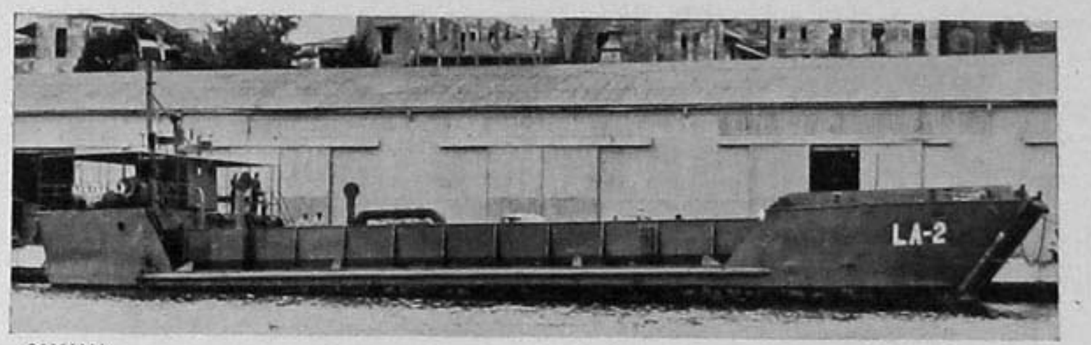
BDI 102 (ex-*LCI* (L) 48, Dec. 10, 1942)

BDI 103

Displacement :	387 tons
Dimensions :	153 (*w.l.*), 158½ (*o.a.*) × 23½ × 5½ feet
Guns :	3—20 mm. AA., 2 M.G.
Machinery :	G.M. Diesels. 2 shafts. B.H.P. : 2,320 = 14 kts
Complement :	24

Notes.—*BDI* 101 and *BDI* 102 built by N. & S.B. Corpn., Camden, N.J. Launch dates above.

Auxiliary Landing Craft (Rated as *Lancha Auxiliar*).



SAMANA. 1951, *Official*.

SAMANA

Dimensions:	120 × 32 × 4 feet
Machinery :	3 sets Diesels. B.H.P. : 225 = 7 kts.
Complement :	12

Notes.—Ex-Tank Landing Craft., No armament. Pendant No. LA.2.

17 DE JULIO

MARIA JOSEFINA

Dimensions :	114 × 32 × 4' eet
Guns :	1 AA., 50 cal.
Machinery :	3 Diesel motors. B.H.P. : 225 = 6 kts.
Complement :	17

Notes.—Ex-Tank Landing Craft. Pendant Nos. LA 3 and LA 4, respectively.

Coastal Craft (*Guardacosta*).

GC 101. 1952, *Official.*

PATRICIA (*ex-SC* 1353, June 3, 1943) **ROSA** (*ex-SC* 1351, March 11, 1943)

Displacement :	85 tons (130 tons *full load*)
Dimensions :	107½ (*w.l.*), 111 (*o.a.*) × 17 × 6½ feet
Machinery :	Diesel. 2 shafts. B.H.P. : 4,000 = 19.5 kts.
Fuel :	15 tons
Complement :	20

Notes.—Built by Vineyard Boat Bldg. Co., Milford, Del. Launch dates above. Wood. Pendant Nos. GC 101, GC 102, respectively.

GC 9 **GC 10** **GC 11**

Displacement	47 tons
Dimensions :	83 × 16½ × 4½ feet
Guns :	2—20 mm., 2 M.G., 8 D.C.
Machinery :	Diesel. B.H.P. : 1,200 = 23.5 kts.

Notes.—Built by Wheeler Shipyards, Brooklyn. Launched 1943. Wood.

GC 8. 1951, *Official.*

GC 8

Launched :	1941
Displacement :	28 tons
Dimensions :	62 × 12 × 4 feet
Machinery :	Petrol motor. B.H.P. : 200 = 10 kts.

Notes.—Built in the Dominican Republic. Wood. No armament.

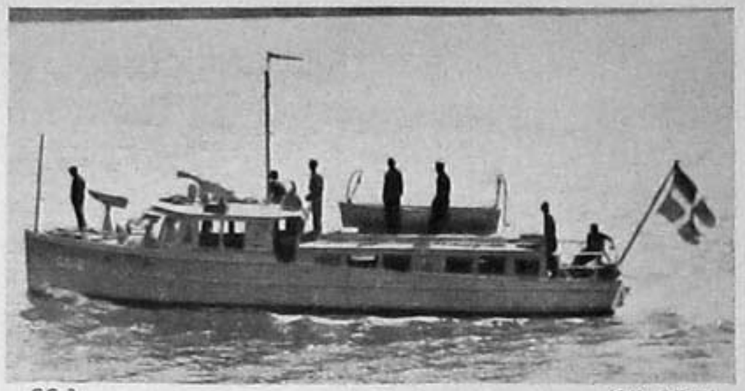
Coastal Craft—*continued.*

GC 4. 1953, *Official.*

GC 3 **GC 4** **GC 5** **GC 6** **GC 7**

Displacement :	37 tons
Dimensions :	75 × 13½ × 4 feet
Guns :	1—1 pdr., 1 M.G., 4 D.C.
Machinery :	Petrol motor. B.H.P. : 400 = 13·5 kts.

Notes.—These include the former CG 110, 144 and 302. Built in U.S.A. Launched 1924-25. Wood. GC 1 was withdrawn from service in 1950.



GC 2. 1948, *Official.*

GC 2

Launched :	1918
Displacement :	18 tons
Dimensions :	45 × 11 × 3½ feet
Guns :	2 M.G.
Machinery :	Petrol motor. B.H.P. : 200 = 9·5 kts.

Notes.—Built in U.S.A. Wood.

Auxiliary Motor Launch (*Lancha Auxiliar*).

LAURA

Dimensions :	38 × 8 × 5 feet
Machinery :	2 petrol motors. H.P. : 320 = 25 kts.
Complement :	5

Notes.—Built in U.S.A. No armament. Pendant No. LA 1.

Rescue Launches (*Lanchas de Rescate*).

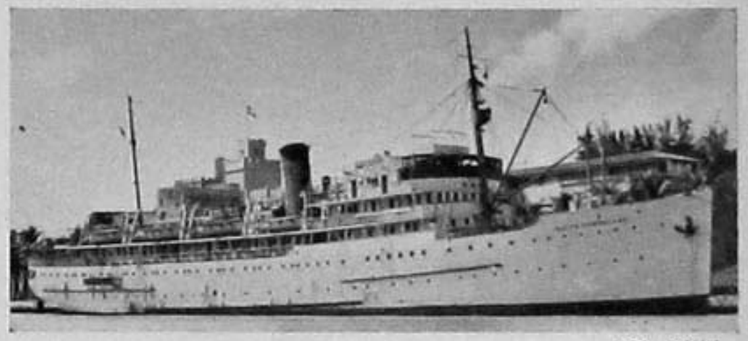
LR 102. 1948, *Official.*

LR 102 **LR 102** **LR 103**

Displacement :	100 tons
Dimensions :	92 (*w.l.*), 104½ (*o.a.*) × 19½ × 5½ feet
Guns :	2—20 mm. AA., 2 M.G.
Machinery :	2 Packard engines. 2 Shafts. H.P. : 1,000 = 17 kts.
Complement :	20

Notes.—Of wooden construction. All launched 1944.

Transport (*Transporte*).



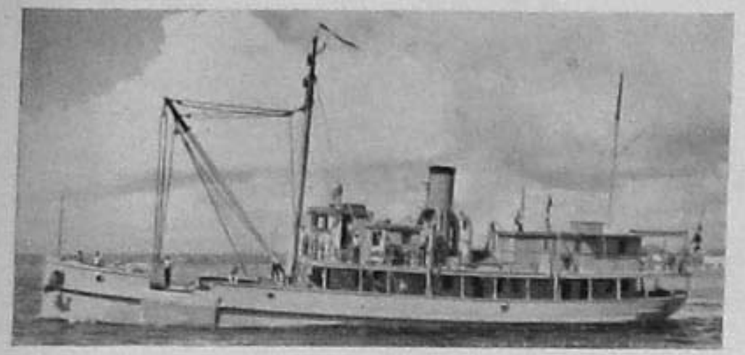
1953, *Official.*

NUEVO DOMINICANO (*ex-New Nortland*)

Builders :	Swan, Hunter & Wigham Richardson, Ltd.
Launched :	April, 1948
Measurement :	2,214 tons *net*, 3,501 tons gross
Dimensions :	302 × 48 × 23 feet
Machinery :	1 shaft. H.P. : 2,180 = 11 kts.
Oil fuel :	380 tons
Range :	1,500 miles
Complement :	59

Lighthouse and Buoy Tender.

(Buque de Faros y Boyas—Boyero).



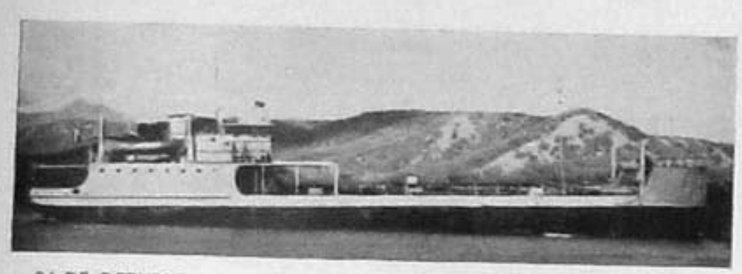
CAPOTILLO. 1953, *Official.*

CAPOTILLO *(ex-Camille)*

Displacement :	337 tons
Dimensions :	117 × 24 × 7½ feet
Machinery :	2 Diesels. B.H.P. : 880 = 10 kts.
Complement :	40

Note.—Pendant No. FB 101.

Fleet Oiler.



24 DE OCTUBRE. *Added 1950, courtesy J. Meister.*

24 DE OCTUBRE *(ex-Y 2)*

Displacement :	1,460 tons
Dimensions :	180 × 30 × 13½ feet
Machinery :	2 Diesels. B.H.P. : 480 = 8 kts. (Loaded speed)
Capacity :	280,000 gallons
Complement :	27

Notes.—Built in U.S.A. in 1943. Recently used by Government as a commercial carrier. Measurement : 602 tons gross. Pendant No. T 101.

Auxiliaries *(Buques Auxiliares).*

1953, *Official.*

SAN RAFAEL

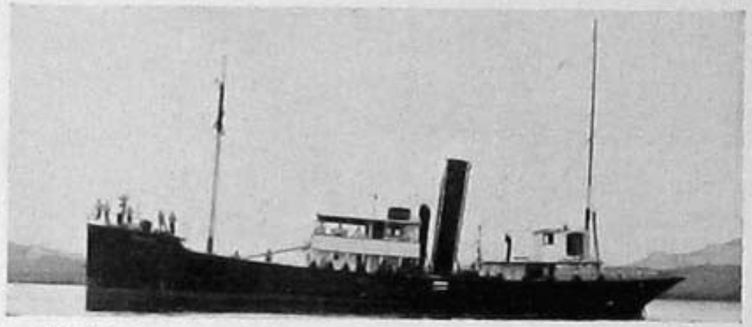
Displacement :	743 tons
Dimensions :	203 × 34½ × 7½ eet
Machinery :	2 Diesel motors = 11 kts.
Complement :	36

Notes.—Ex-LSM. Pendant No. BA 103.

18 DE DICIEMBRE 1952, *Official.*

18 DE DICIEMBRE

Notes.—Apparently a converted patrol vessel of the United States PC type, Pendant No. BA 101.



LEONOR 1952, *Official.*

LEONOR *(ex-Romanita)*

Guns :	1 small

Note.—Pendant No. BA 102.

DUARTE

Training Ship *(Goleta Auxiliar).*

Measurement :	170·28 tons gross
Dimensions :	121 × 23½ × 8½
Machinery :	1 Diesel. H.P. : 200
Complement :	12

Notes.—Built in Dominican Republic. Auxiliary sail training vessel. Pendant No. GA 1.

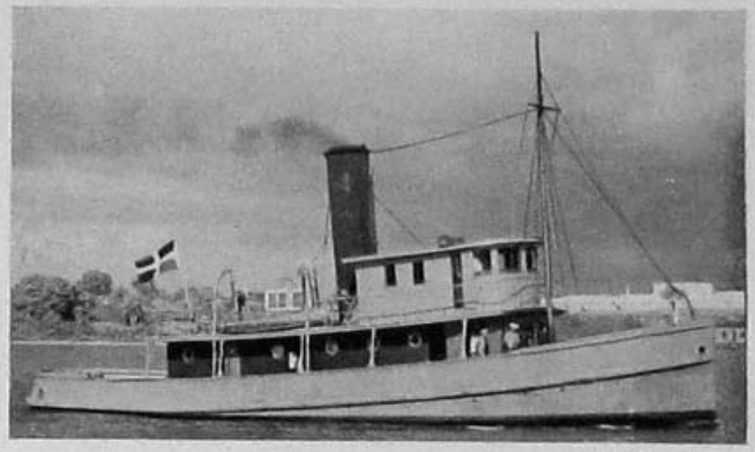
Tugs *(Remolcadores).*

1951, *Official.*

R 1

Dimensions :	65 × 14 × 9 feet
Machinery :	2 Diesel motors B.H.P. : 300 = 8 kts.
Complement :	8

Note.—Built in U.S.A.



1951, *Official.*

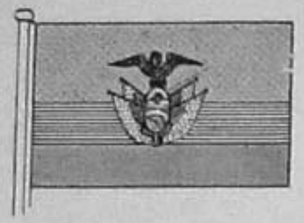
HERCULES *(ex-Heracles)*

Builders :	Cammell Laird & Co. Ltd., England
Launched:	1910
Displacement :	114 tons
Dimensions :	81 × 19 × 9 feet
Machinery :	Triple expansion. 1 shaft. 1 H.P. : 385 = 10 kts.
Complement :	10

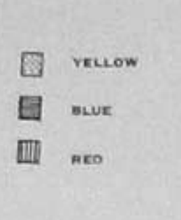
Note.—Pendant No. R 2.

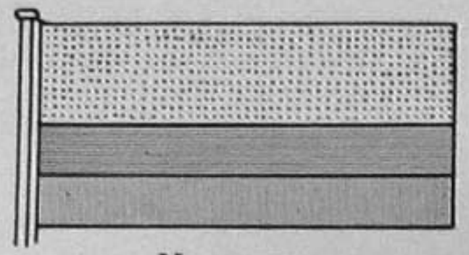
ECUADOR

Flags.



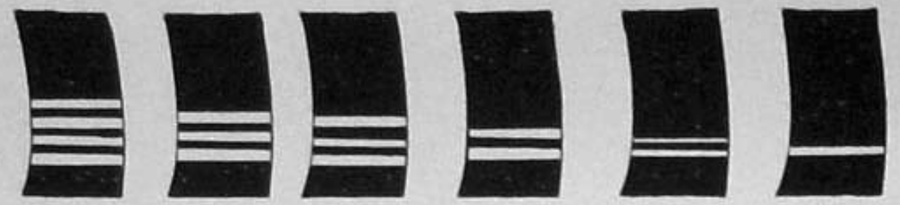
ENSIGN





MERCANTILE.

Uniforms.



	Capitán de Navio	Capitán de Fragata	Capitán de Corbeta	Teniente de Fragata	Alférez de Navio	Alférez de Fragata
British Equivalent :—	*Captain.*	*Commander.*	*Lieut.-Commander.*	*Lieutenant.*	*Junior Lieutenant.*	*Sub-Lieutenant.*

Administration.

Chief of the Navy : Captain César Endara Peñaherrera.

Personnel

2,400 officers and men. Naval School : In Salinas, with United States instructors.

Silhouettes.

GUAYAS.

PRESIDENTE ALFARO.

ESMERALDAS.

MANABI.

EL ORO.

Frigate.

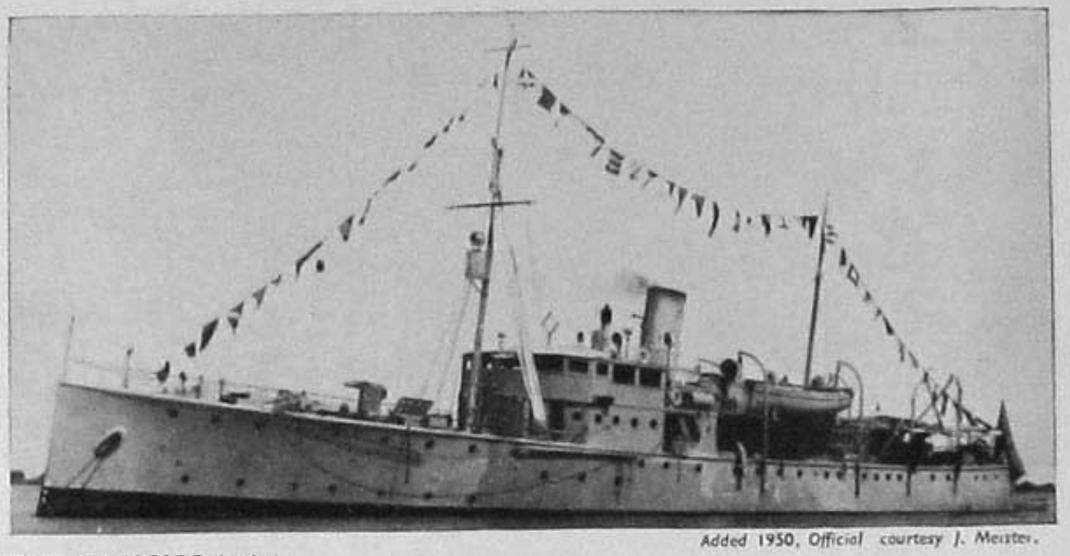
Added 1950, courtesy J. Meister.

GUAYAS (ex-U.S.S. *Covington*)

Builders :	Globe, Superior
Launched :	15 Jul., 1943
Displacement :	1,430 tons (2,360 tons *full load*)
Dimensions :	304 (*o.a.*) × 37¼ × 13¾ feet
Guns :	2—3 inch, 2—40 mm. AA., 4—20 mm. AA., 3 D.C.T.
Machinery :	Triple expansion, 2 shafts, I.H.P. : 5,500 = 20 kts.
Boilers :	2
Fuel :	290 tons

Notes.—Former U.S. patrol frigate PF 56. Purchased from U.S.A. in 1947. Similar design to British "River" class frigates.

Training Ship (*Buque Escuela*).



Added 1950, Official courtesy J. Meister.

PRESIDENTE ALFARO (*ex-Ara*)

Builders :	Camper & Nicholsons, Southampton
Launched	1917
Displacement :	1,030 tons *standard*
Dimensions :	213 (*w.l.*) × 31½ × 14½ feet
Guns :	2—3 inch, 4—5 M.G., 2 D.C.T.
Machinery :	2 Atlas Diesels, 2 shafts, B.H.P. : 2,400 = 14·5 kts.

Notes.—Former yacht. Purchased 1935. Refitted at Panama, 1940.

Patrol Vessels (*Guardacostas*).

MANABI. *Added 1950, Official, courtesy J. Meister.*

MANABI (*ex-Diez de Agosto, ex-U.S.S. Opal, ex-Coronet*)

Launched	1928
Displacement :	590 tons (700 tons *full load*)
Dimensions :	150 × 27 × 10 feet
Guns :	2—3 inch, 4—5 M.G.
Machinery :	Diesel. 2 shafts. B.H.P. : 830 = 13 kts.

Note.—Ex-yacht, acquired from U.S. Navy in Sept., 1943.

ESMERALDAS. *Added, 1950, courtesy J. Meister.*

ESMERALDAS (*ex-Neuve de Octobre, ex-U.S.S. Turquoise, ex-PC 459, ex-Entropy, ex Kallisto, ex-Wolscia III, ex-Morimachi, ex-Ohio*)

Launched :	1922
Displacement :	565 tons
Dimensions :	171½ × 26 × 11 feet
Guns :	1—3 inch, 2—40 mm.
Machinery :	Diesel. 2 shafts. B.H.P. : 700 = 10 kts.

Notes.—Ex-yacht, acquired from U.S. Navy in Jan., 1944.

Tug.

COTOPAXI (*ex-R. T. Ellis*)

Builders :	Equitable Building Co. Incorp.
Displacement :	150 tons
Dimensions :	82 × 21 × 8 feet

Coast Guard Tenders.

ABDON CALDERON *Added 1950, courtesy J. Meister.*

ABDON CALDERON (*ex-Cotopaxi*)

Built :	Port Glasgow
Launched :	1884
Displacement :	300 tons
Dimensions :	124½ (*pp.*), 135 (*o.a.*) × 22 × 9 feet
Guns :	2 small
Machinery :	I.H.P. : 175 = 8 kts. (present best speed). Oil fuel

Notes.—Built of iron. Is employed on Coast Guard duties, and as lighthouse tender.

ATAHUALPA

Built :	Guayaquil
Launched :	1927
Displacement :	100 tons

Note.—Employed as lighthouse tender.

Transport.

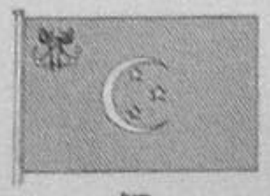
EL ORO (*ex-Cinco de Junio, ex-APc 85*)

Displacement :	258 tons
Dimensions :	98 (*w.l.*), 103½ (*o.a.*) × 21½ × ½ feet
Machinery :	Diesel. B.H.P. : 400 = 10 kts.
Complement :	25

Notes.—Purchased from U.S. Navy in 1943. Accommodation for 66 troops.

EGYPT

Flags.


(worn as jack).

VICE-ADMIRAL

REAR-ADMIRAL

NATIONAL and MERCANTILE

Administration.

Minister of War and Marine : Mustafa Nosrat.
Director General of the Navy : Rear Admiral Mahmoud Tewfik Badr.

Personnel

2,000 officers and men

Mercantile Marine.

Lloyd's Register appendix, 1953 : 60 vessels of 93,733 tons *gross*.

Uniforms.

Sayed Elbehar Elazam	Kabir Omara Elbehar	Amir Elbehar	Amir Elbahr	Miralai	Kaimakam	Bimbashi	Sagh	Youzbashi	Mulazim Awal	Mulazim Tani
British equivalent. *Admiral of the Fleet*	*Admiral*	*Vice-Admiral*	*Rear-Admiral*	*Captain (senior)*	*Captain (junior)*	*Commander*	*Lieut.-Commander*	*Lieutenant*	*Lieutenant (junior)*	*Sub-Lieutenant*

Non-executive branches are differentiated in usual way by coloured cloth between gold lace stripes, viz.,

Engineer officers :	Purple
Supply officers :	White
Surgeons :	Scarlet
Scientific officers :	Light blue

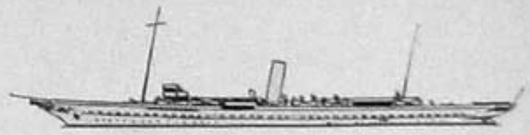
Silhouettes.

* Scale : 150 ft. = 1 inch.

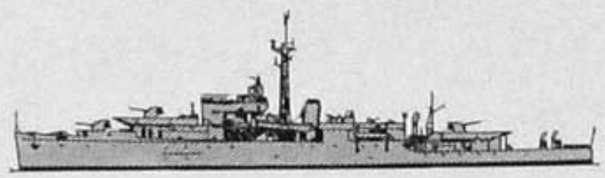
DOMIAT. *

MOHAMED ALI EL KEBIR.
(IBRAHIM EL EWAL foremast as inset, no mainmast).

RACHID. *
(ABIKIR similar but with yard on foremast higher).



MAHROUSSA.



EL MALEK FAROUQ.

Single-funnelled Minesweepers.

3 Frigates (*ex-British "River" Type*).

DOMIAT. 1950, *Wright & Logan.*

RACHID. 1950, *Royal Egyptian Navy, Official.*

ABIKIR (*ex-Usk*) **DOMIAT** (*ex-Nith*) **RACHID** (*ex-Spey*)

Displacement :	1,460 tons (1,865 tons *full load*)
Dimensions :	283 (*pp.*), 301½ (*o.a.*) × 36½ × 12 feet
Guns :	2—4 inch, 2—40 mm. AA., 6—20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers :	2 Admiralty 3-drum type
Fuel :	440 tons
Complement :	140

Notes.—Formerly of "River" class frigates in British Navy. Purchased from Great Britain. Officially transferred Nov., 1949. *Abikir* refitted by Camper & Nicholsons, Southampton, sailed for Egypt, April 1950. *Domiat*, refitted by Willoughby, Plymouth, sailed for Egypt, May 1950.

Pendant No.	*Name*	*Builders*	*Begun*	*Launched*	*Completed*
43	*Abikir*	Smith's Dock Co. Ltd.	6 Oct., 1942	3 Apr., 1943	14 July, 1943
44	*Domiat*	Henry Robb Ltd.	5 Sep., 1941	25 Sep., 1942	16 Feb., 1943
42	*Rachid*	Smith's Dock Co. Ltd.	18 July, 1941	18 Dec., 1941	19 May, 1942

1 AA. Frigate (*ex-British Sloop Type*).

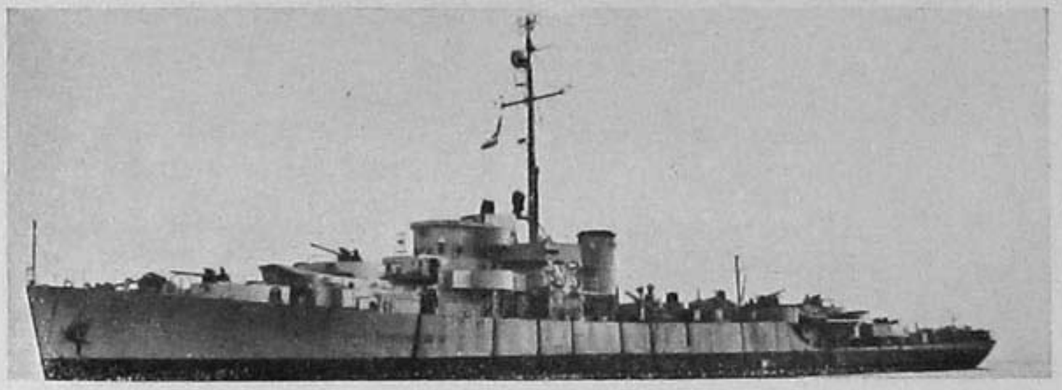
1951, *A. & J. Pavia.*

EL MALEK FAROUQ (*ex-Whimbrel*)

Builders :	Yarrow & Co., Ltd., Glasgow.
Laid down :	31 Oct., 1941
Launched :	25 Aug., 1942
Completed :	13 Jan., 1943
Displacement :	1,470 tons (1,925 tons *full load*)
Dimensions :	300 × 38 × 9 feet
Guns :	6—4 inch, 4—40 mm., 2—20 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 4,300 = 19·75 kts.
Boilers :	2, of 3-drum type
Complement :	180

Notes.—Formerly of "Black Swan" class sloops (later re-rated frigates) in British Navy. Transferred from Great Britain, Nov., 1949. No pendant number. Broad band on funnel as flotilla leader, and thinner flotilla band.

2 AA. Frigates (*ex-U.S. Type*).



Ex-PAPUA (*ex-Howett*) **Ex-TOBAGO** (*ex-Hong Kong, ex-Holmes*)

Displacement :	1,318 tons
Dimensions :	304 (*o.a.*) × 37½ × 12 feet
Machinery :	Triple expansion. 2 shafts. I.H.P.: 5,500 = 18 kts.
Complement :	180

Notes.—Closely duplicate British "River" class frigates. Lease-Lent to United Kingdom and served in British Navy as "Colony" class frigates. Returned to United States after the war, declared surplus by Navy and sold out of service. Acquired by Egypt as passenger vessels but reported may be refitted as naval units. Still have original mounts for 3-inch and smaller guns.

Name	*Builders*	*Launched*
Ex-Papua	Walsh-Kaiser, Providence	10 Oct., 1943
Ex-Tobago	Walsh-Kaiser, Providence	17 Aug., 1943

2 Fast Frigates (ex-British Destroyer Type).

IBRAHIM EL EWAL

1952, Wright & Logan.

MOHAMED ALI EL KEBIR

1951, A. & J. Pavia.

MOHAMED ALI EL KEBIR (ex-Mendip, ex-Lin Fu, ex-Mendip)

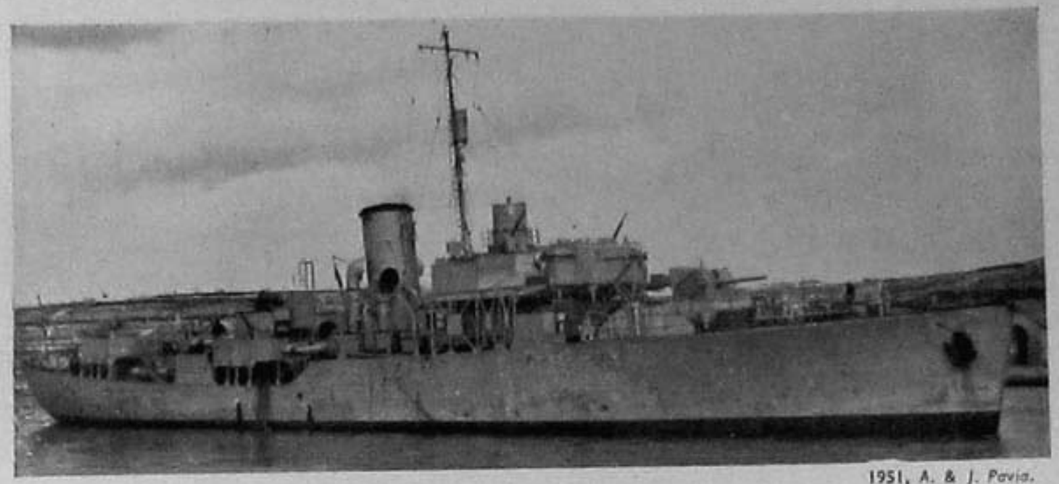
Displacement :	1,000 tons (1,415 tons *full load*)
Dimensions :	272½ (pp.), 280 (*o.a.*) × 20 × 7¾ feet
Guns :	4—4 inch, 2—40 mm., 2—20 mm. AA., 5—2 pdr.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 19,000 = 27·5 kts.
Boilers :	2, of 3-drum type
Complement :	146

IBRAHIM-EL-EWAL (ex-Cottesmore)

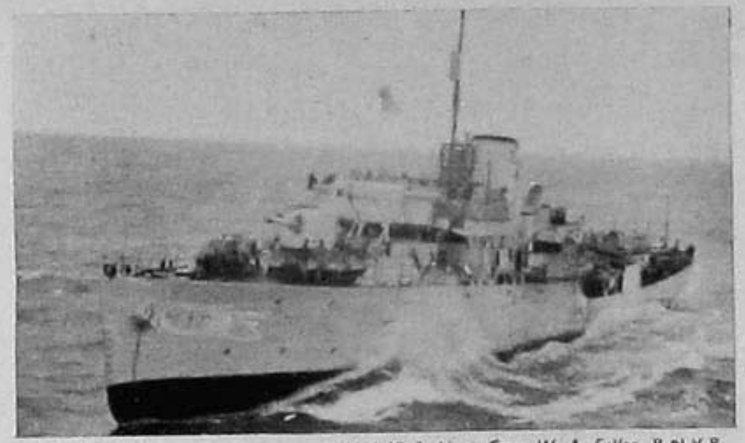
Notes.—*Mohamed Ali El Kebir* served in British Navy until May 1948, when she was transferred to Chinese Navy ; she returned to the British Navy at Hong Kong a year later, but was transferred to the Egyptian Navy in Nov. 1949. *Ibrahim el Ewal* was officially transferred from Great Britain to Egypt in July 1950, and sailed for Egypt in April 1951, after a nine months' refit by J. Samuel White & Co. Ltd., Cowes. *Mohamed Ali El Kebir* has thin band on funnel.

Pendant No.	Name	Builders	Machinery	Laid Down	Launched	Completed
12	*Ibrahim-el-Ewal*	Yarrow & Co. Ltd.	Yarrow & Co. Ltd.	12 Dec., 1939	5 Sep., 1940	29 Dec., 1940
11	*Mohamed Ali*	Swan Hunter	Wallsend Slipway Co.	10 Aug., 1939	9 Apr., 1940	12 Oct., 1940

2 A/S Frigates (ex-British Corvette Type).



1951, A. & J. Pavia.



EL SUDAN.

Added 1943, Lieut.-Com. W. A. Fuller, R.N.V.R.

EL SUDAN (ex-Mallow, ex-Partizanka, ex-Nada, ex-Mallow)

Builders :	Harland & Wolff
Laid down :	14 Nov., 1939
Launched	22 May, 1940
Completed :	2 July, 1940
Displacement :	1,060 tons (1,340 tons *full load*)
Dimensions :	190 (pp.), 205 (*o.a.*) × 33 × 14½ feet (*max.*)
Guns :	1—4 inch AA., 1—2 pdr., 2—20 mm. AA.
Machinery :	Triple expansion. I.H.P. : 2,750 = 16 kts.
Boilers :	2 S.E.
Oil fuel :	230 tons
Complement :	85

Notes.—Formerly of " Flower " class corvettes in Royal Navy. Taken over by Yugoslavia in 1943 (loaned). Returned to Royal Navy early 1949 and transferred to Egypt Oct. 28, 1949.

MISR (ex-*S.S. Malrouk*, ex-H.M.S. ——)

Displacement :	1,000 tons
Dimensions :	205 × 33 × 16 feet
Guns :	1—4 inch L.A., 1—3 inch H.A./L.A.
Machinery :	Triple expansion. I.H.P. : 2,750 = 16·5 kts.
Oil fuel :	200 tons

Notes.—Differs from *El Sudan* in disposition of armament and other particulars

Fleet Minesweepers.

MATRUTH (*ex-Stornaway*) **NASR** (*ex-Bude*)

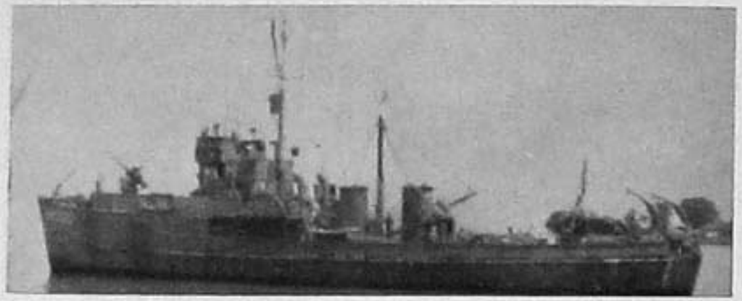
Displacement :	672 tons (900 tons *full load*)
Dimensions :	180 (*o.a.*) × 28½ × 9½ feet
Guns :	1—4 inch, 1—3 inch, 2—40 mm. AA. (4—20 mm. in *Matruh*)
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,400 = 16 kts.
Boilers :	2 Admiralty 3-drum type
Complement :	60

Notes.—Former "Bangor" class minesweepers acquired from Great Britain. Now rated as corvettes. Sister ship *Sollum* sank in heavy weather off Alexandria 7 March 1953.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Matruh	Henry Robb Ltd.	17 Jul., 1940	10 Jun., 1941	17 Nov., 1941
Nasr	Lobnitz & Co. Ltd.	2 Apr., 1940	4 Sep., 1940	12 Dec., 1941

Motor Minesweepers.

DARFOUR. 1951, *A. & J. Pavia.*



DARFOUR, MALEK FUAD, TOR, etc. (*ex-BYMS* 2013, 2028, 2035, 2041, 2069, 2075, 2149 2175, 2212)

Displacement :	215 tons
Dimensions :	136 (*o.a.*) × 24½ × 6 feet
Guns :	1—3 inch, (except 2149, 2175), 2—20 mm. AA.
Machinery :	Diesel. B.H.P. : 1,000 = 13 kts.
Fuel :	16 tons

Note.—All single-funnelled except 2028, which has 2 funnels as above. One named *Gaza*, was lost on 26 July, 1950 as a result of fuel-tank explosion off Mersa Matruh.

Motor Torpedo Boats.

Fairmile "D" Type.

Displacement :	100 tons
Dimensions :	115 × 21½ × 5 feet
Guns :	Several light AA.
Tubes :	4—18 inch tubes
Machinery :	4 Packard engines. B.H.P. : 5,000 = 27·5 kts.
Complement :	30

Note.—Acquired from Great Britain.

Motor Launches.

HAMZA (*ex-ML* 134) and 5 other Fairmile "B's"

Displacement :	65 tons
Dimensions :	112 × 18½ × 4½ (*max.*) feet
Guns :	1—3 pdr., 3—20 mm. AA., 4 M.G.
Machinery :	2 Hall-Scott Defender engines. 2 shafts. B.H.P. : 1,200 = 19 kts.

Tank Landing Ship.

AKA (*ex-LST* 178)

Displacement :	2,140 tons (4,980 tons *full load*)
Dimensions :	347½ × 55 × 13 feet
Guns :	4—20 mm.
Machinery :	S.H.P. : 2,750 = 13 kts.

Note.—Ex-United States LST.

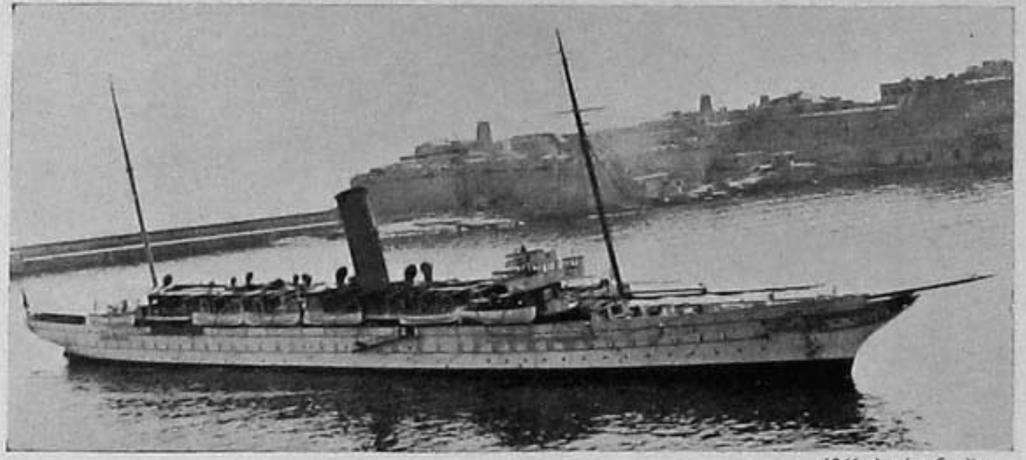
Tank Landing Craft.

Nos. 1-20

Displacement :	22 tons
Speed :	11 kts.

Note.—Of *LCM* type.

Yacht.



1946, *London Studio.*

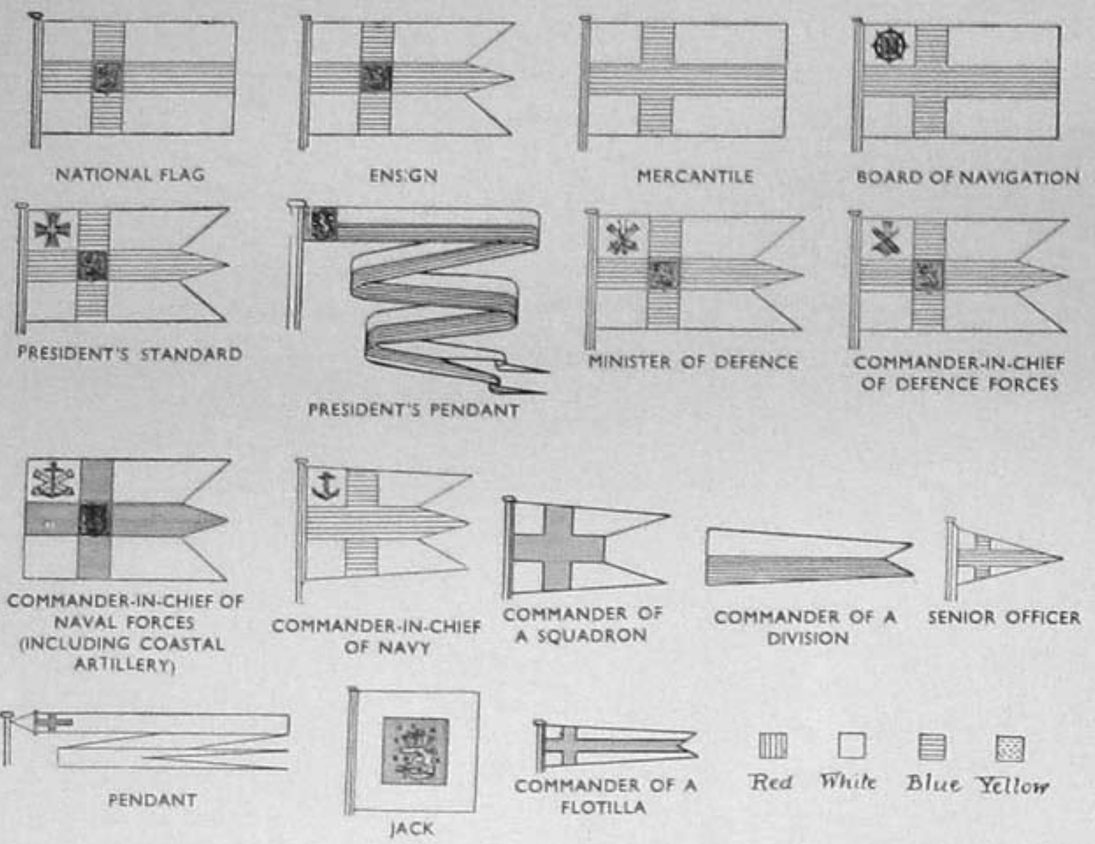
MAHROUSSA

Builders:	Samuda Bros., Poplar
Launched:	1865
Displacement :	4,561 tons
Dimensions :	400 (*pp.*), 420 (*w.l.*), 477½ (*o.a.*) × 42½ × 17½ feet
Machinery :	3 Parsons turbines. 3 shafts. S.H.P. : 5,500 = 16 kts.
Boilers :	5 main and 1 auxiliary Inglis multi-tubular
Oil fuel :	346 tons
Complement :	164

Notes.—Built of iron. Reconstructed by A. & J. Inglis, Glasgow, and reboilered 1905, and refitted in 1946-47 at Malta Dockyard. Reconstructed 1949-50 at Odero-Terni, Muggiano, at a cost of over £1,250,000.

FINLAND

Flags.



Note.—Commander of a Flotilla has blue cross on white field as Commander of Squadron, but same shape as Commander of a Division. The Lion in the Flags is similar to that shown enlarged for the uniforms. In the Flags there are 9 conventional roses disposed about the Lion.

Administration.

Minister of Defence : Mr. E. Skog.

Naval Attaché, London : Lieut.-Colonel F. Olavi Seeve.

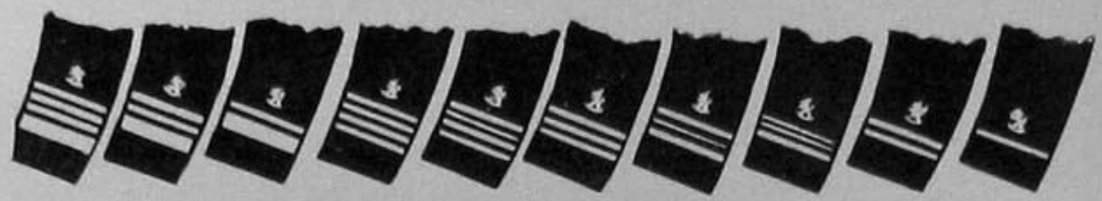
Personnel.

1,500 officers and ratings. There are also 2,000 officers and men belonging to the Coastal Artillery.

Treaty Notes.

Under Treaty of Paris (Feb. 10, 1947), material strength must not exceed 10,000 tons, nor personnel 4,500. Finland must not possess submarines or M.T.B.s. Former are laid up, latter now M.G.B.s.

Uniforms.



Colour of cloth between stripes :

Engineers :	purple ;
Supply officers :	silver stripes and 1 silver star ;
Surgeons :	red ;
Army officers in Naval Service :	green.

Device above upper stripe is the Lion of the Finnish Arms, as enlarged sketch reproduced herewith.

Silhouettes.

(Scale : 150 ft.=1 inch)

TURSAS.

RUOTSINSALMI.

UUSIMAA.

PURUNPÄÄ Class.

VON DÖBELN.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 344 vessels of 591,202 tons gross.

Gunboats (*Tykkiveneet*).

UUSIMAA. Added 1949.

UUSIMAA (*ex-German Beo, ex-Golub*)

Launched :	1917
Displacement :	400 tons
Dimensions :	160 (pp.), 170½ (*o.a.*) × 24½ × 11 feet
Guns :	2—4·1 inch, 1—40 mm. AA., 2—20 mm., 2 M.G.
Machinery :	2 sets triple expansion. Designed H.P. : 1,400 = 15 kts.
Boilers :	Cylindrical
Coal :	70 tons
Complement :	54

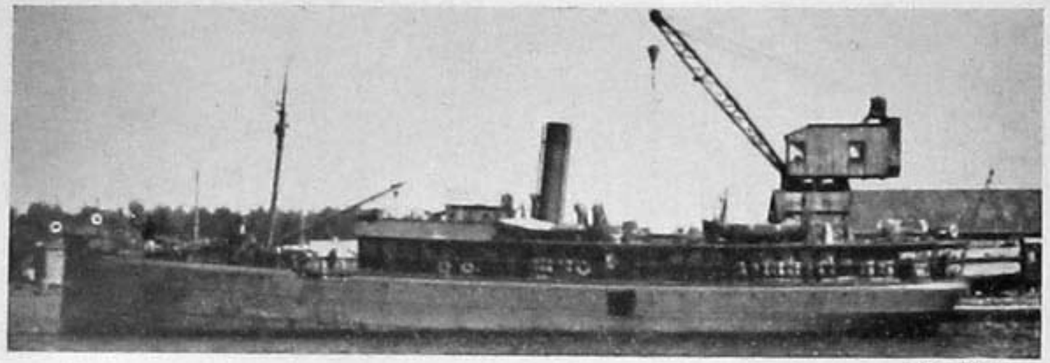
Notes.—Built at Helsinki to order of late Imperial Russian Government. It was decided to scrap sister ship *Hämeenmaa* in 1953. Gunboats *Karjala* and sister ship *Turunmaa* (cadets' training ship) sold for scrapping 1953.

AURA

Launched :	1907
Displacement :	350 tons
Dimensions :	128 × 23 × 11½ feet
Guns :	1—3 inch, 2—20 mm. AA.
Speed :	10 kts.

ELAKÖÖN

Depot Ship (*Emälaiva*).



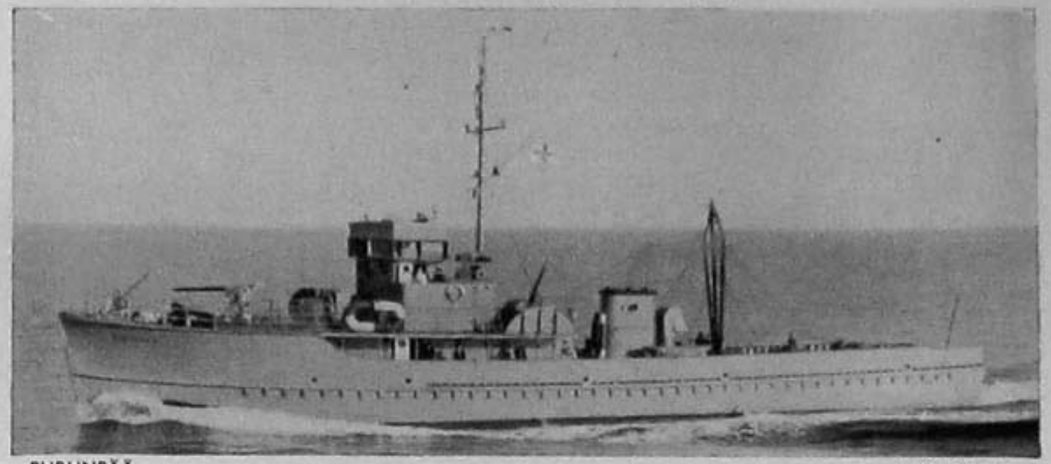
1953, *Official*

VON DÖBELN

Launched :	1876
Displacement :	750 tons
Dimensions :	175½ (pp.), 182 (*o.a.*) × 26 × 11½ feet
Machinery :	Compound. I.H.P. : 750 = 11 kts.

Notes.—Built of iron. Reconstructed 1929. Acquired 1941.

Motor Minesweepers (*Raivaajat*).



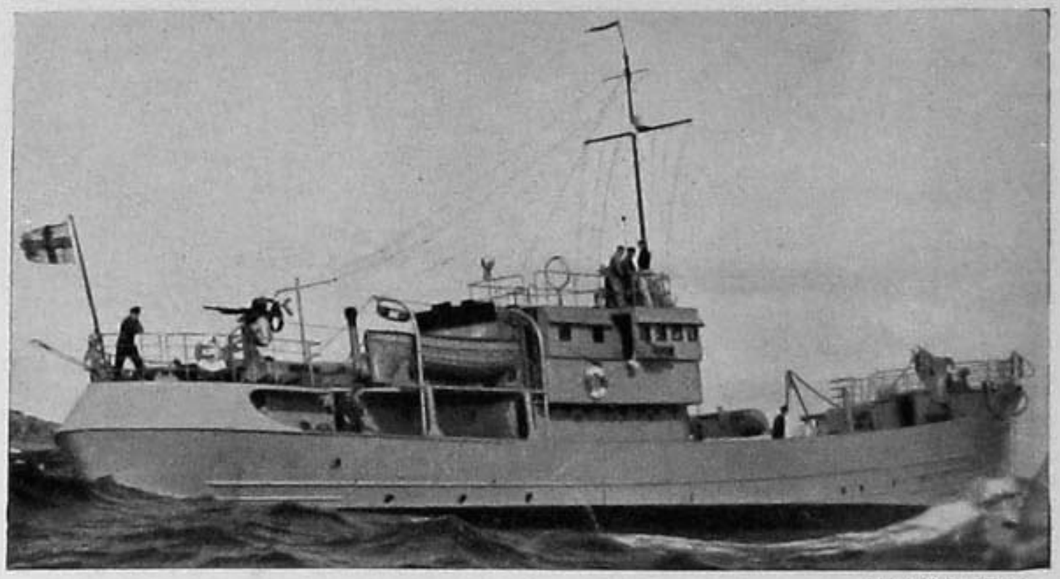
PURUNPÄÄ. 1950, *Official*.

KATANPÄÄ (*ex-BYMS 2047*)
PURUNPÄÄ (*ex-BYMS 2044*)
TAMMENPÄÄ (*ex-BYMS 2032*)
VAHTERPÄÄ (*ex-BYMS 2049*)

Displacement :	215 tons
Dimensions :	136 (*o.a.*) × 24½ × 6 feet
Guns :	1—3 inch, 2—20 mm. AA.
Machinery :	Diesel. B.H.P. : 1,000 = 13 kts.

Notes.—Launched 1942. Wood. Originally Lend-Leased to Britain from U.S. Acquired by Finland 1943-49. Classified as patrol vessels (*vartioalukset*) until 1952.

Coast Guard Patrol Vessel (*Vartioalukset*).



Added 1949, *Official*.

TURSAS

Displacement :	360 tons
Dimensions :	131½ × 23½ × 14 feet
Guns :	2—20 mm. AA.
Machinery :	Diesel. Speed 12 kts.

Note.—Built by Crichton-Vulkan. Launched in 1938. Belongs to the Coast Guard, which is under the Ministry of the Interior.

Coastal Minelayer (*Miinalaivat*).

Added 1949.

RUOTSINSALMI

Builders :	Hietalahden
Launched :	May, 1940
Displacement :	300 tons
Dimensions :	206 × 29½ × 6½ feet
Guns :	1—40 mm. AA., 2—20 mm. AA.
Mines :	100
Machinery :	2 Rateau Diesels. B.H.P. : 1,120 = 15 kts.

Note.—The minelayer *Routu* has been sold.

Auxiliary Minesweepers

A 5

Launched :	1944
Displacement :	155 tons
Dimensions :	88½ × 22 × 9 feet
Guns :	1—20 mm.
Speed :	9 kts.

1953, *Official.*

DR 2 **DR 7** **DR 11**

Displacement :	106 tons
Dimensions :	69 × 20 × 8½ feet
Guns :	1—20 mm.
Speed :	8 kts.

Note.—Former United States Army tugs. Launched 1943-1944.

Motor Gunboats.

T 3. 1951, *Official.*

T 2 **T 3** **T 4** **T 5** **T 6** **T 7** **T 8**

Displacement :	22 tons
Dimensions :	59 × 15½ × 5 feet
Guns :	1—40 mm., 1—20 mm.
Speed :	42 kts.

Notes.—All launched 1942-43. Ex-N 2-8.

H 1 **H 2** **H 3** **H 4** **H 5**

Displacement :	20 tons
Dimensions :	55½ × 14 × 4 feet
Guns :	1—40 mm., 1—20 mm.
Speed :	32 kts.

Notes.—All launched 1941. Above vessels are ex-MTBs.

J 1 **J 2** **J 3** **J 4**

Displacement :	22 tons
Dimensions :	62½ × 15½ × 4½ feet
Guns :	1—40 mm., 1—20 mm.
Speed :	35 kts.

Notes.—All launched 1939. Ex-MAS 526-529.

Motor Minesweeping Boats (*Raivaajat*).

AJONPÄÄ **KALLANPÄÄ**

Launched :	1943-44
Displacement :	40 tons
Dimensions :	65½ × 16½ × 3½ feet
Guns :	1—20 mm.
Speed :	9 kts.

Notes.—Built in Denmark. Launched 1943-44. Fitted for magnetic minesweeping.

KUHA II. 1946, *Official.*

KUHA 1 2 4 5 7 8 9 10 11 12 13 14 15 16 17 18

Displacement :	18 tons
Dimensions:	56 × 12½ × 5 feet
Guns :	1—20 mm.
Speed :	9 kts.

Notes.—Built in Finland. Launched 1941-45.

Minesweeping Boats—*continued.*

AHVEN 2. 1946, *Official.*

AHVEN 1 2 3 4 5 6

Displacement :	17 tons
Dimensions :	56½ × 12 × 4½ feet
Machinery :	H.P. : 60 = 10·5 kts.
Complement :	8

Notes.—Built at Turun Veneveistämö Yard. Launched 1936-37.

SM 4

Displacement :	20 tons
Dimensions :	59 × 12½ × 5½ feet
Guns :	1—20 mm.
Speed :	8 kts.

Notes.—Built in Finland. Launched 1937.

Motor Patrol Boats (*Vartiomoottoriveneet*).

VMV 18 **VMV 19** **VMV 20**

Displacement :	25 tons
Dimensions :	69 × 13½ × 4 feet
Guns :	1—20 mm.
Speed :	11 kts.

Notes.—Built in Finland. Launched 1935-43. Ex-Motor launches *SP* 1, 41, 42.

VMV 16. 1946, *Official.*

VMV 9 **VMV 11** **VMV 13** **VMV 15** **VMV 16**

Displacement :	30 tons
Dimensions :	82 × 13½ × 3½ feet
Guns :	1—20 mm. AA.
Machinery :	Semi-Diesel. B.H.P. : 1,220 = 25 kts.
Complement :	9

Notes.—Built in Finland. Launched 1935.

VMV 5 **VMV 6**

Displacement :	30 tons
Dimensions :	82 × 13½ × 3½ feet
Guns :	1—20 mm.
Machinery :	Benzol motors in *VMV* 5, semi-Diesel in *VMV* 6. H.P. 1,220 = 25 kts.
Complement :	8

Notes.—Built in Finland. Launched 1930-31. *VMV* 1 and *VMV* 2 sold 1952.

General Note.—All above *VMVs* belong to the Coast Guard which is under the Ministry o the Interior.

236R

Icebreakers (*Jäänsarkijät*).

(a new icebreaker is projected)

VOIMA

Builders :	Hietalahden telakka
Displacement :	4,415 tons
Dimensions :	254½ (*w.l.*), 274 (*o.a.*) × 63½ (61½ *w.l.*) × 20½ feet
Machinery :	Diesels with electric drive. 4 shafts. B.H.P. : 14,000 = 16½ kts.
Oil fuel :	740 tons
Complement :	73

Notes.—Launched and completed in 1953. Built for deep-sea work. Two propellers forward and two aft.

1940, *Official*.

SISU

Builders :	Hietalahden telakka
Launched :	24 Sep., 1938
Displacement :	2,000 tons
Dimensions :	194½ (*w.l.*), 210½ (*o.a.*) × 46½ × 16½ feet
Guns :	2—3·9 inch AA.
Machinery :	3 sets Atlas Polar Diesels with electric drive. 2 shafts and a bow propeller. H.P. : 4,000 = 16 kts.
Complement :	100

1940, *Official*.

OTSO

Launched :	1936
Displacement :	800 tons
Dimensions :	134½ (*pp.*), 144 (*o.a.*) × 35½ × 15½ feet
Machinery :	Triple expansion, with bow propeller. I.H.P.: 1,800=13 kts.
Oil fuel :	60 tons

Note.—Belongs to the town of Helsinki.

Icebreakers—*continued*.

TARMO (*ex-Sampo II*)

Builders :	Armstrong
Launched :	1907
Displacement :	2,300 tons
Dimensions :	210½ (*w.l.*), 220 (*o.a.*) × 47 × 18½ feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 3,850 = 12 kts.
Complement	43

SAMPO

Builders :	Armstrong
Launched :	1898
Displacement :	1,850 tons
Dimensions :	202 × 43 × 18½ feet
Machinery :	Triple expansion. 2 shafts. I.H.P. 3,000 = 12 kts.
Complement :	43

APU (*ex-Avance*)

Builders :	Howaldt, Kiel
Launched	1899
Displacement :	800 tons
Dimensions :	136 (*pp.*), 144 (*o.a.*) × 35½ × 15 feet
Machinery :	I.H.P. : 1,385 = 10 kts.

MURTAJA

Built :	Stockholm
Launched :	1890
Displacement :	815 tons
Dimensions :	137½ × 36 × 13 feet
Machinery :	Compound. H.P. : 1,130 = 11 kts.

Note.—Officially stated that above two old and weak ships of the icebreaker fleet will be discarded when the new icebreaker is ready for service.

General Note.—All above icebreakers except *Otso* belong to the Board of Navigation.

Mining Tenders (*Miinaveneet*).

MIINA (*ex-T 17, 1917*) **POMMI** (*ex-M 7, 1916*)

Displacement :	80 tons
Dimensions :	65½ × 17 × 4 feet
Machinery :	2 sets of B.M.V. petrol motors. Designed I.H.P. : 90 = 9 kts.
Fuel :	1½ tons
Complement :	6

Notes.—Built by Porin Konepaja O.Y., Pori. Launch dates above. Can carry 30 mines.

LIESKA (*ex-T 16, 1916*) **LOIMU** (*ex-T 21, 1915*)

Displacement :	60 tons
Dimensions :	62½ × 17 × 3½ feet
Machinery :	2 sets of B.M.V. petrol motors. Designed I.H.P. : 60 = 7·5 kts.
Fuel :	1½ tons
Complement :	6

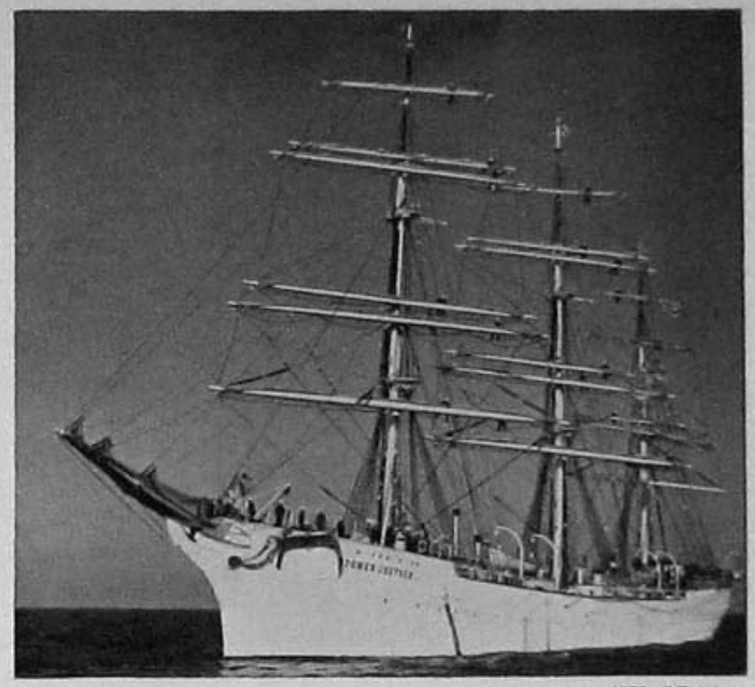
Notes.—Built by Porin Konepaja O.Y., Pori. Launch dates above. Can carry 40 mines.

Tenders.

	PANSIO (1947)	**PORKKALA** (1940)	**PUKKIO** (1929)
Displacement :		162 tons	
Dimensions :		92 × 21½ × 9 feet	
Guns :		1—40 mm., 1—20 mm. AA.	
Speed :		10 kts.	

Notes.—Built at Naval Dockyard, Helsinki. Launch dates above.

Sail Training Ship (*Koululaiva*).



1950, *Official*.

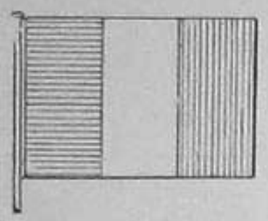
SUOMEN JOUTSEN (*ex-Oldenburgh, ex-Loennec*)

Builders :	St. Nazaire
Launched :	1902
Displacement :	2,900 tons
Dimensions :	316½ × 40½ × 16½ feet
Sail area :	2,200 square metres
Machinery :	2 auxiliary Diesels. B.H.P. : 400 = 6 kts
Oil fuel :	40 tons
Complement :	27 + 60 cadets

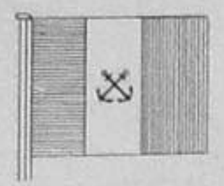
Notes.—Originally French and subsequently a German schoolship. Purchased by Finnish Navy in August 1930.

FRANCE

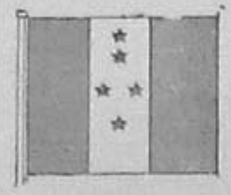
Flags.



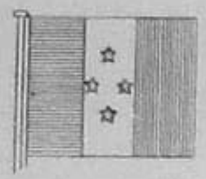
ENSIGN AND JACK



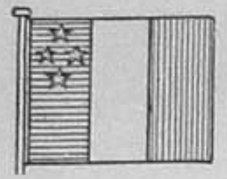
AMIRAL DE LA FLOTTE



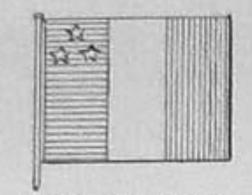
AMIRAL



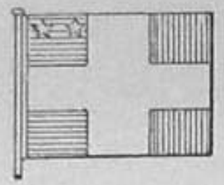
VICE-AMIRAL D'ESCADRE (commanding Fleet) or Chief of Naval Staff.



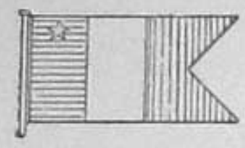
VICE-AMIRAL D'ESCADRE



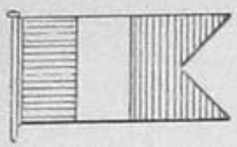
OTHER VICE-AMIRALS



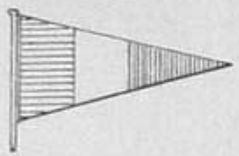
CONTRE-AMIRAL



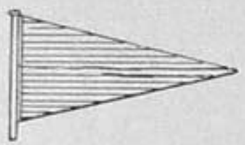
CAPITAINE DE VAISSEAU CHEF DE DIVISION (INDEPENDANTE OU EN SOUS ORDRE). Equivalent to British Commodore.



CAPITAINE DE VAISSEAU COMM'T UN GROUPE DE BÂTIMENTS, OU MAJOR-GÉNÉRAL COMMANDANT LA MARINE



CAPITAINE DE FRÉGATE OU DE CORVETTE, COMM'T UN GROUPE BÂTIMENTS OU COMMANDANT LA MARINE



COMM'T SUPÉRIEUR TEMPORAIRE DE TOUT GRADE.

Rouge *Blanc* *Bleu*

Administration.

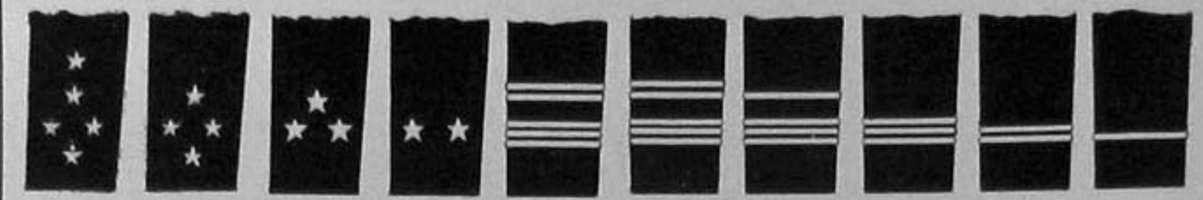
Minister of Defence : M. René Pleven.
Secretary of State for Navy : M. Jacques Gavini.
Chief of the Naval Staff : Vice-Amiral d'Escadre Nomy, K.C.B.
Deputy Chief of Naval Staff : Vice-Amiral Jourdain.
Deputy Chief of Naval Staff (Air) : Contre-Amiral Rebuffel.

Naval Attache, London : Contre-Admiral Le Hâgre.

Personnel.

65,000 to 71,000 officers and men.

Uniforms.



Amiral	Vice-Amiral d'Escadre.	Vice-Amiral.	Contre-Amiral.	Capitaine de vaisseau.	Capitaine de frégate.*	Capitaine de corvette.	Lieutenant de vaisseau.	Enseigne 1ère classe	Enseigne 2ème classe
Corresponding to British									
Admiral.	*Vice-Ad.*		*Rear-Ad.*	*Captain.*	*Commander.*	*Lieut.-Commander.*	*Lieut.*	*Lieut. (junior).*	*Sub-Lieut.*

French Amiral de la Flotte is equivalent to British *Admiral of the Fleet*. There is at present no holder of the rank.

* Only three of the Capitaine de frégate's stripes are gold : the second and fourth are silver.

Aspirant, equivalent to *Midshipman*, has one gold stripe and 2 light blue patches.

Engineers	have similar stripes with	*violet*	velvet between.			
Paymasters	"	"	"	"	*brown*	"	"
Medical Officers	"	"	"	"	*red*	"	"
Chemists	"	"	"	"	*green*	"	"
Constructors							
Survey Corps	"	"	"	"	*black*	"	"
Ordnance Officers							
Maritime Judical Officers	"	"	"	"	*light brown*	"	"
Cypher and Interpreter Officers (reserve only)	"	"	"	"	*dark blue*	"	"
Dental Officers (reserve only)	"	"	"	"	*iron grey*	"	"

(Two latter do not wear more than four stripes).

Caps are similar to British in shape but badge differs, and there are stripes right round according to rank. The cocked hat carries the tricolour. Frock coats and Epaulettes have been abolished.

New Construction Programmes.

1949	1	2,700-ton first rate escort.
	2	1,310-ton second rate escorts.
	2	1,400-ton submarines.
1950	1	2,700-ton first rate escort.
	2	1,310-ton second rate escorts.
	2	1,400-ton submarines.
1951	4	2,700-ton first rate escorts.
	17	Coastal minesweepers.
1952	6	2,700-ton first-rate escorts. (plus following built with " off-shore " payments) :
	7	1,310-ton second-rate escorts.
	3	375-ton patrol vessels.
	5	400-ton net layers.
1953	1	8,270-ton anti-aircraft cruiser.
	5	2,700-ton first rate escorts
	2	1,310-ton second rate escorts.
	2	400-ton submarines (SSK).
	4	Coastal minesweepers.
	4	Inshore minesweepers.

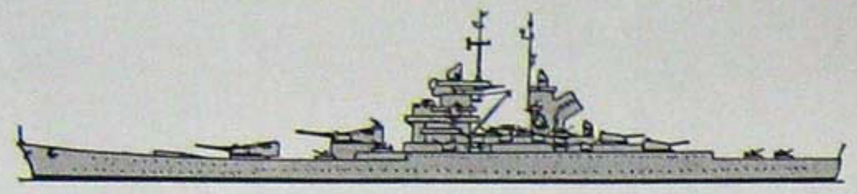
Mercantile Marine.

Lloyd's Register appendix, 1953 : 1,261 vessels of 3,641,484 tons *gross*.

LAFAYETTE.

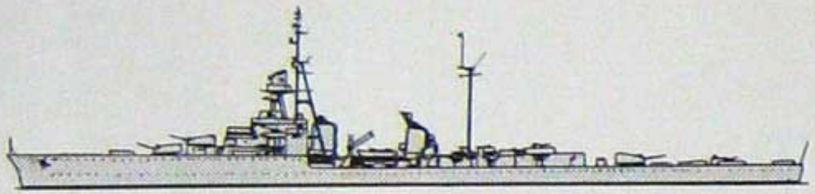
ARROMANCHES.

DIXMUDE.

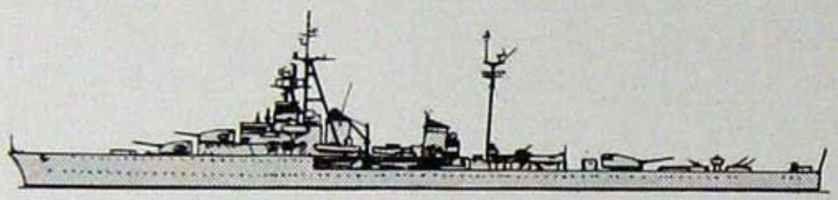


JEAN BART.

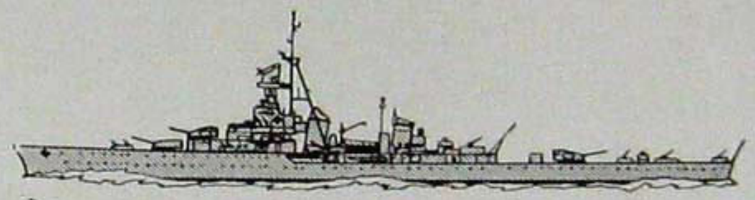
RICHELIEU.



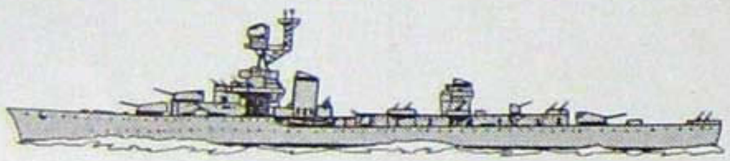
GLOIRE*



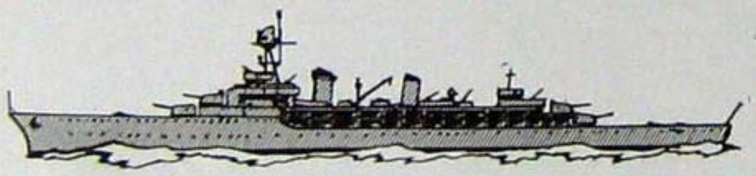
MONTCALM *



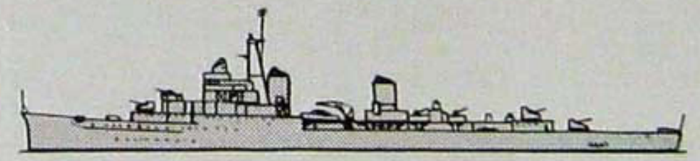
GEORGES LEYGUES.



EMILE BERTIN.

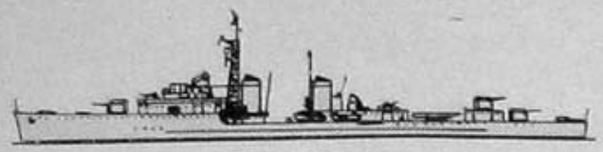


JEANNE D'ARC.

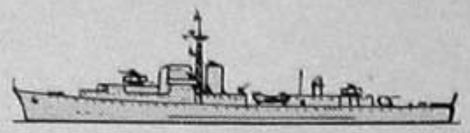


CHATEAURENAULT, GUICHEN. *
(As converted to anti-submarine and anti-aircraft escorts.)

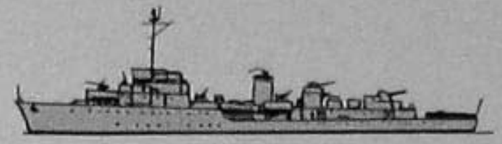
345



BOUVET *Class.* *



BORDELAIX *Class.* *



BISSON.

L'ALSACIEN, LE LORRAIN.

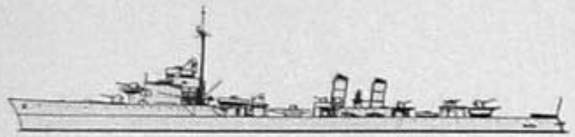
L'AVENTURE, LA DÉCOUVERTE. *

GAZELLE *Class.* *

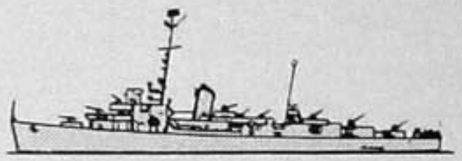
LE FANTASQUE *Class.*

TONKINOIS, CROIX DE LORRAINE, etc. *

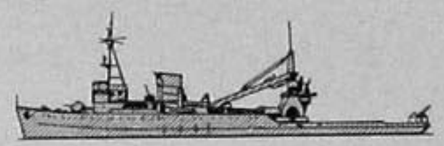
ELAN *Class.* *



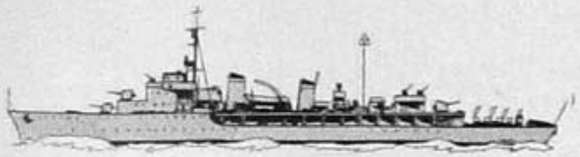
ALBATROS.



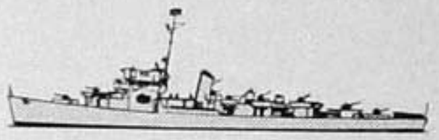
HOVA, TUNISIEN. *



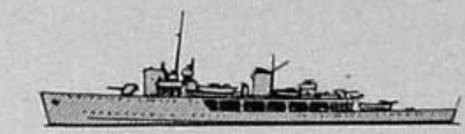
COMMANDANT ROBERT GIRAUD.
(PAUL GOFFENY similar, but foremast much closer to funnel.)



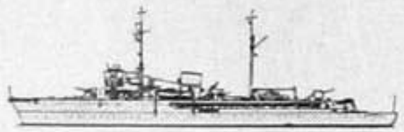
DUMONT D'URVILLE *Class.*



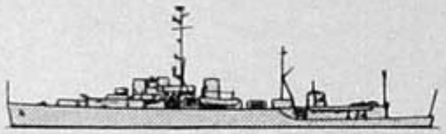
TOUAREG, SÉNÉGALAIS *Class.* *



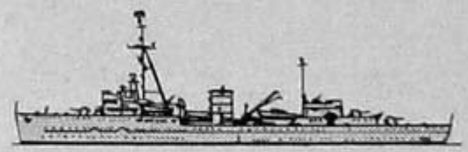
BEAUTEMPS-BEAUPRÉ, LAPÉROUSE.



FRANCIS-GARNIER. *



LE VERRIER *Class.* *



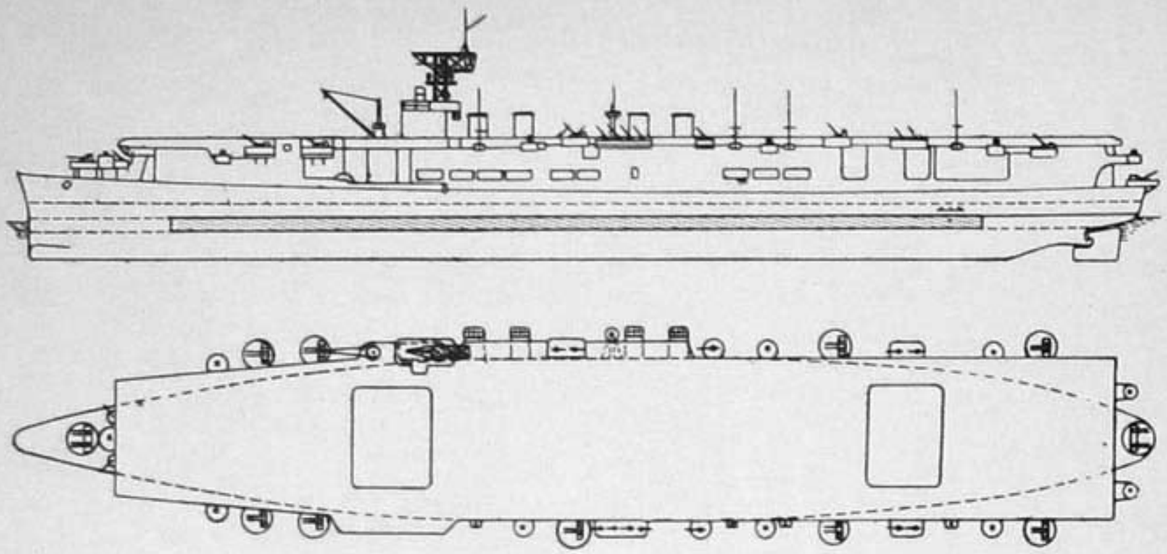
GUSTAVE ZÉDÉ. *

Aircraft Carrier.

1 Ex-U.S. Fast Light Fleet Type.

LA FAYETTE (*ex-Langley, ex-Crown Point, ex-Fargo*)

Builders :	New York S.B. Co., Camden, New Jersey
Laid down	11 Apr., 1942
Launched :	22 May, 1943
Completed	31 Aug., 1943
Displacement :	11,000 tons (15,100 tons *full load*)
Dimensions :	Length : 623 (*o.a.*) feet. Beam : 71½ (*hull*) feet. Width : 109 (extreme) feet. Draught : 26 (*max.*) feet.
Guns :	26—40 mm. AA., 10—20 mm. AA.
Armour :	2" Belt (5" on some vital points)
Aircraft :	101 (*max.*) when stowed (capacity.) 26 carried
Machinery :	Geared turbines. 4 shafts. S.H.P. : 100,000 = 32 kts.
Boilers :	8 Babcock & Wilcox
Oil fuel :	2,000 tons.
Range :	11,000 miles at 15 kts. ; 5,800 miles at 25 kts.
Complement	1,183 (peace) ; 1,400 (war)



General Notes.—Officially turned over to France on 6 June, 1951, under the Mutual Defense Assistance Program. Formerly a unit of United States " Belleau Wood " class fast light fleet aircraft carriers. Laid down as a light cruiser of the U.S. " Cleveland " class but completed as an aircraft carrier. Was originally designed to include four 5 inch guns in armament.

Aircraft Notes.—In 1952 carried Avenger (anti-submarine) and Hellcat aircraft.

LA FAYETTE 1952, *Marius Bar.*

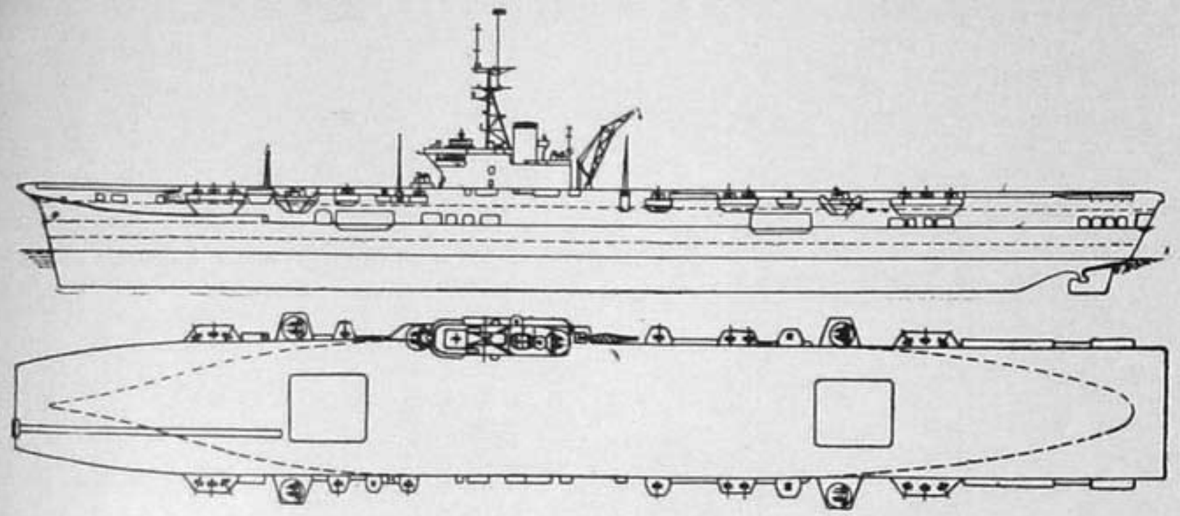
LA FAYETTE. *Added* 1951, *U.S. Navy, Official.*

1 Ex-British Light Fleet Type.

1949, *Marius Bar.*

ARROMANCHES (ex-H.M.S. *Colossus*)

Builders :	Vickers-Armstrongs, Ltd., (Tyne)
Laid down :	1 Jun., 1942
Launched :	30 Sep., 1943
Completed :	16 Dec., 1944
Displacement :	13,190 tons (18,040 tons *full load*)
Dimensions :	Length : 694½ feet (*o.a.*). Beam : 80½ feet. Width : 112½ feet (*o.a.*). Draught : 23 feet
Guns :	24—2 pdr., 19—40 mm. AA.,
Aircraft :	Capacity : 39 to 43 (24 at present). American " Hellcat " fighters and " Helldiver " dive-bombers
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 25 kts. (*designed*), 23·5 kts. (*actual*)
Boilers :	4, of 3-drum type (400 lb. working pressure, 700 degrees maximum superheat)
Radius :	12,000 miles at 14 kts. ; 6,200 miles at 23 kts.
Complement :	1,620



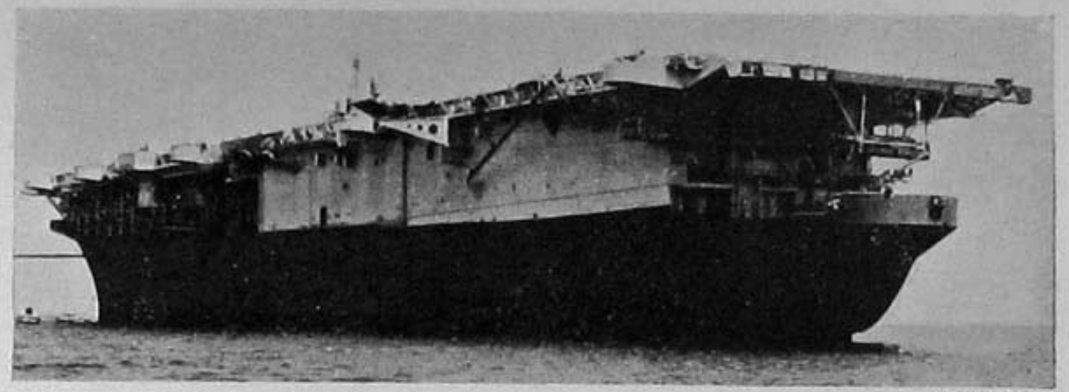
General Notes.—This ship was lent to the French Navy for five years from August 1946 with the option of purchase in 1951, which was taken up, and she was permanently transferred from Great Britain in that year. Extensively refitted 1950-51.

Engineering Notes.—Engines and boilers are arranged *en echelon*, one turbine and two boilers being installed side by side in each of the two main propelling machinery spaces.

Aircraft Notes.—In 1952 aircraft comprising " Hellcats " (fighters) and " Helldivers " (dive-bombers) from U.S.A. were carried.

1 Ex-U.S. Escort Type (Rated as *Transport d'Aviation*).

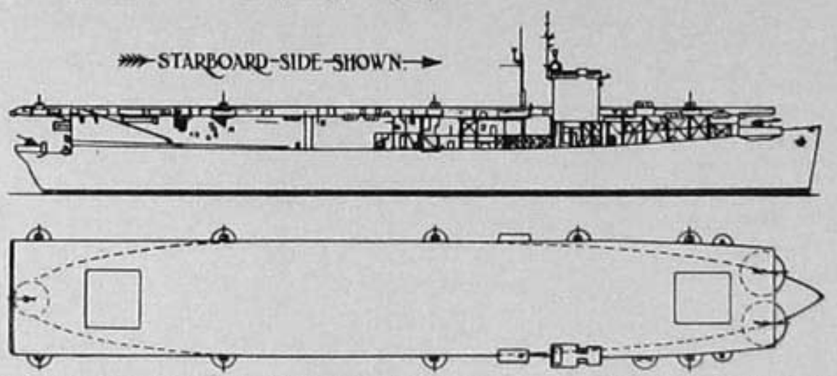
1950, *courtesy M. Henri Le Masson.*



Added 1950.

DIXMUDE (ex-H.M.S. *Biter, ex-Rio Parana*)

Builders :	Sun S.B. & D.D. Co., Chester, Pa.
Launched :	18 Dec., 1940
Displacement :	8,200 tons (15,500 tons *full load*)
Dimensions :	Length : 496 feet (*o.a.*). Beam : 69½ feet. Draught : 25½ feet (*max.*)
Guns :	3—4 inch AA., 19—20 mm. AA.
Aircraft :	Capacity : 20 to 30, according to type.
Machinery :	2 sets Doxford Diesels coupled on 1 shaft. B.H.P. : 9,000 = 16·5 kts.
Radius :	30,000 miles at 10 kts. ; 20,000 miles at 15 kts.
Complement :	408 (peace) ; 582 (war)



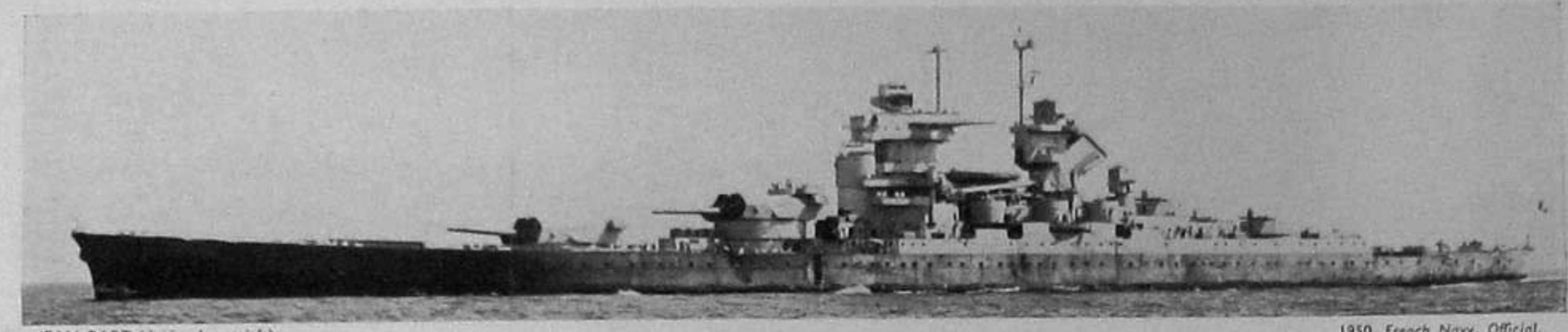
Notes.—Former U.S. escort carrier which served in British Navy under Lend-Lease terms during the Second World War, retransferred to the French Navy in January, 1945. Has been extensively used in 1949-52 as a ferry carrier between U.S.A. and France or France and Indo-China. Rated as Aviation Transport in 1951.

Battleship.

(Rated as *Bâtiment de ligne*).

JEAN BART

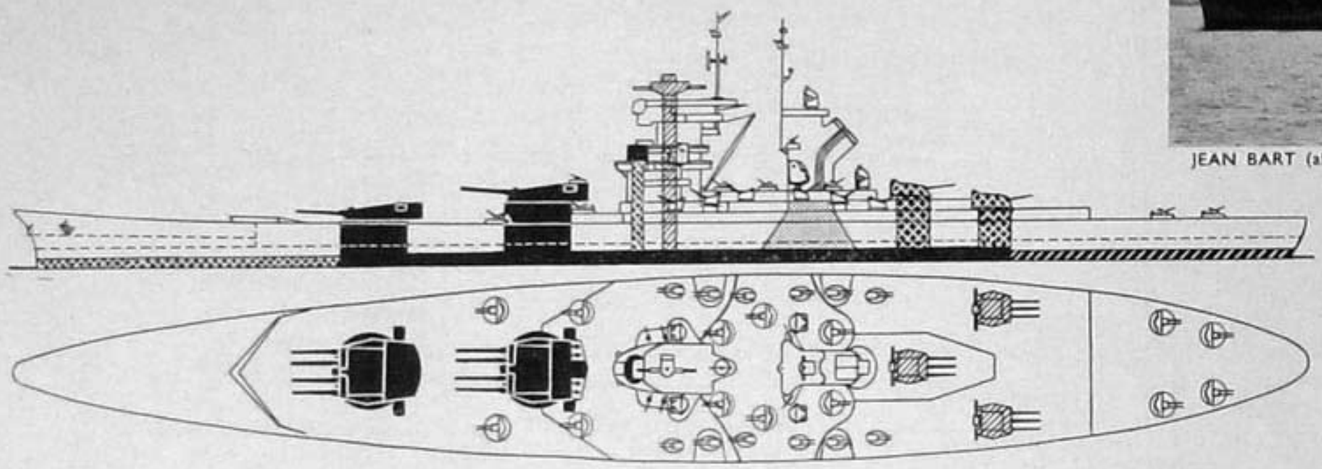
Builders :	A.C. Loire
Laid down :	Jan., 1939
Launched :	6 Mar., 1940
Completed :	1949



JEAN BART (during her trials)

1950, *French Navy, Official.*

Displacement	35,000 tons (*nominal*) ; 38,750 tons (*standard*) ; 49,000 tons (*full load*)
Dimensions :	Length : 813½ feet (o.a.). Beam : 116½ feet. Draught : 30 feet (32½ feet *full load*).
Guns :	8—15 inch, 9—6 inch d.p., 24—3·9 inch d.p., 28—57 mm. AA., 8—20 mm. AA. (Oerlikon)
Armour :	15¾"-8¾" Belt, 6¾"-6" (upper armoured deck), 1½" (lower armoured deck), 17", 11¾", 6¾" and 5¼" Main Turrets, 13¾" Conning Tower
Machinery :	Parsons geared turbines. 4 shafts. S.H.P. : 150,000 = 30 kts. (On preliminary trials she reached 32 kts. with 160,000 S.H.P.)
Boilers :	6 Indret. Sural
Oil fuel :	6,000 tons
Radius :	8,500 miles at 14 kts., 6,900 miles at 20 kts., 3,400 miles at 30 kts.
Complement	70 officers, 1,600 ratings (peace) ; 88 officers, 2,055 ratings (war)



General Notes.—Having had bulges fitted, this ship has greater beam than *Richelieu*. Also has different type of bridge and improved AA. armament. When building at St. Nazaire (A.C. Loire shipyard), she succeeded in escaping in June, 1940, in an incomplete state and prior to any trials, and arriving at Casablanca, where she stayed during the war. Building was resumed in 1945 at Brest Navy Yard, and she ran her first sea trials in Jan. 1949. Excellent and most elaborate radar equipment is installed, rendering her suitable for employment as a "command vessel." Commissioned in April 1950 for gunnery trials and exercises, and her long-delayed AA. armament was mounted during winter of 1951-52.

Gunnery Notes.—57 mm. guns are of a new model.

JEAN BART (after trials).

1950, *French Navy, Official.*

JEAN BART.

1950, *French Navy, Official.*

Battleship.

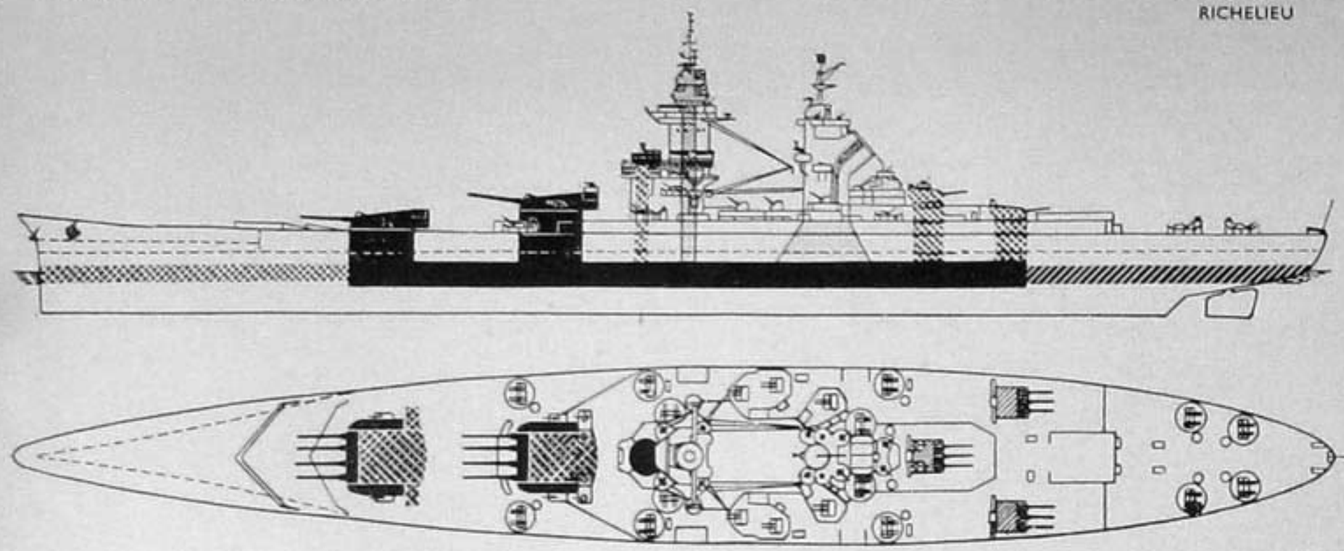
(Rated as *Bâtiment de ligne*).

RICHELIEU

Builders :	Brest
Engineers :	Loire
Laid down :	22 Oct., 1935
Launched :	17 Jan., 1939
Completed :	Jul., 1940
Displacement :	35,000 tons *designed* ; 38,500 tons *actual* (48,500 tons *full load*)
Dimensions :	Length : 794 feet. Beam : 108 feet 7 inches. Draught : 26½ feet (*mean*)
Guns :	8—15 inch, 9—6 inch C.P., 12—4 inch AA., 56—40 mm. AA., 37—20 mm. AA.
Armour :	16"-9" Belt, 8" Deck (upper and lower combined), 17"-13" Main Turrets, 5" Secondary Turrets, 13" C.T. (See notes)
Machinery :	Parsons geared turbines, 4 shafts. S.H.P. : 150,000 = 30 kts. (In service she has reached 32·5 kts. with 179,000 S.H.P.)
Boilers :	6 Indret-Sural
Oil fuel :	6,000 tons
Radius of action :	8,500 miles at 14 kts. ; 6,900 miles at 20 kts. ; 3,400 miles at 30 kts.
Complement :	1,670 (peace) ; 1,946 (war)

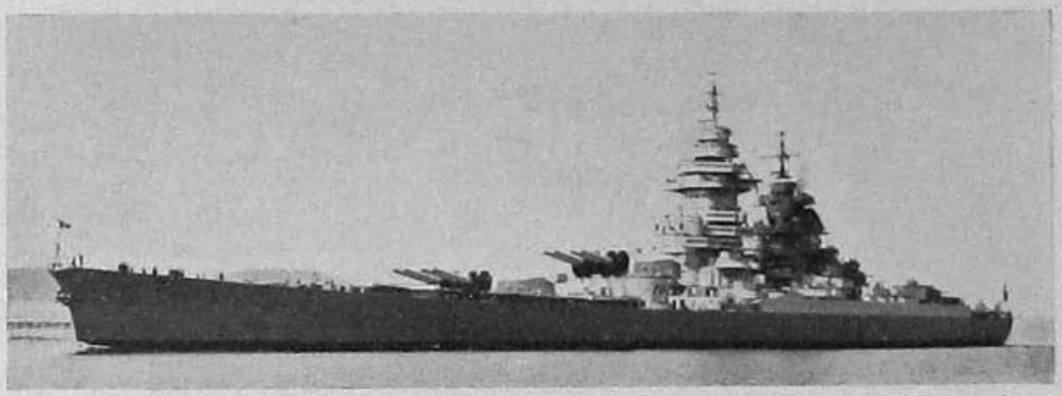
RICHELIEU

1953, *French Navy, Official.*



RICHELIEU.

1953, *French Navy, Official.*



RICHELIEU.

Added 1950, *Marius Bar.*

General Notes.—Ordered under 1935 programme. Extensively refitted 1951. Employed as gunnery training vessel at Toulon.

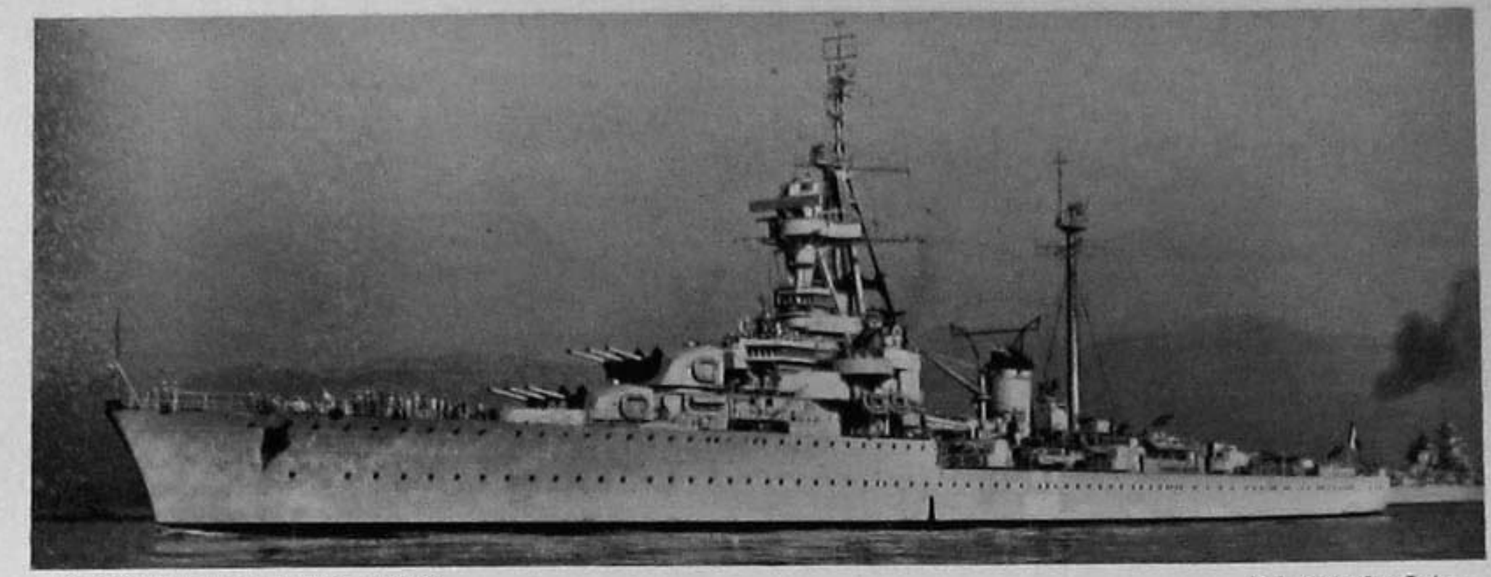
Armour Notes.—Proportion of displacement devoted to armour is 40 per cent. higher than in any previous ships (total weight of armour, 14,000 tons : total weight of machinery, over 3,000 tons)

Class Notes.—Both *Richelieu* and *Jean Bart* were built in dry dock, their cost exceeding 2,000,000,000 francs each. *Jean Bart* built in Loire yard, but construction shared by Penhoët concern. Uncompleted hull of a third ship, *Clemenceau*, was sunk by Allied heavy bombers during siege of Brest. A fourth ship, the *Gascogne*, was projected, but never begun.

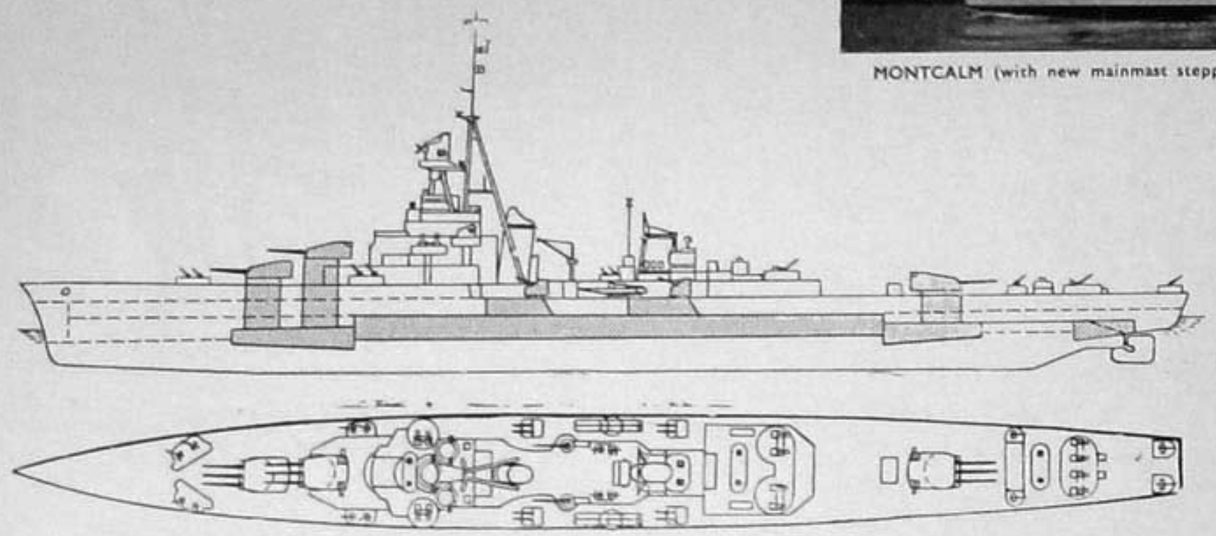
3 " Gloire " Class.

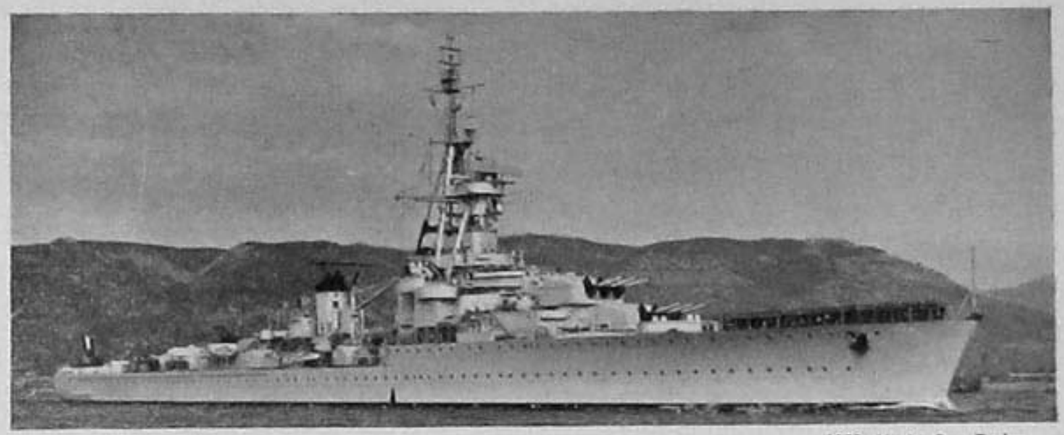
GLOIRE **MONTCALM**
GEORGES LEYGUES *(ex-Chateaurenault)*

Displacement :	7,600 tons (10,700 tons *full load*)
Dimensions :	Length : 548 (*pp.*), 580½ (*o.a.*) feet. Beam : 57½ feet. Draught : 17½ feet (*max.*)
Guns :	9—6 inch, 8—3·5 inch AA., 24—40 mm. AA., 16—20 mm. AA.
Tubes :	4—21·7 inch
Armour (unofficial) :	4-3½" Vert. Side, 2½" Deck, 5½" Turret faces, 2" Turret sides, 3½" C.T.
Machinery :	2 Rateau-Chantiers de Bretagne (*Gloire* only) or Parsons geared turbines. S.H.P. : 84,000 = 31 kts.
Boilers :	4 Indret small tube
Oil fuel :	1,870 tons
Radius :	5,500 miles at 18 kts. ; 3,300 miles at 24 kts.
Complement	674 peace, 764 war

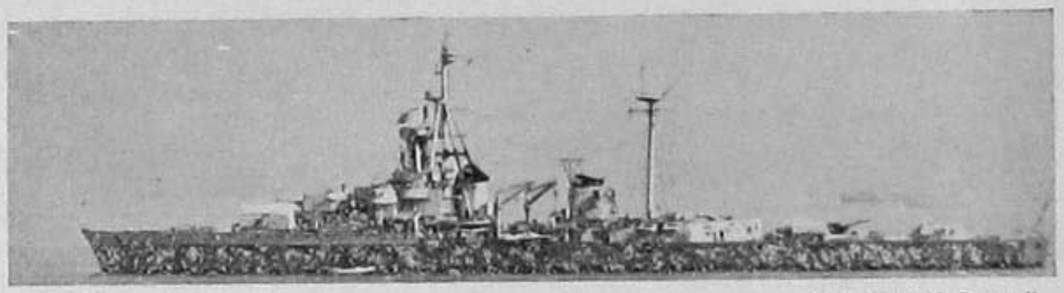


MONTCALM (with new mainmast stepped). 1953, *Marius Bar, Toulon.*





GEORGES LEYGUES 1953, *Marius Bar, Toulon.*



GLOIRE 1952, *Lieut. Aldo Fraccaroli.*

Note to Plan.—*Gloire* and *Montcalm* now have mainmast abaft after funnel (see photos) and *Georges Leygues* will be similarly rigged in 1954.

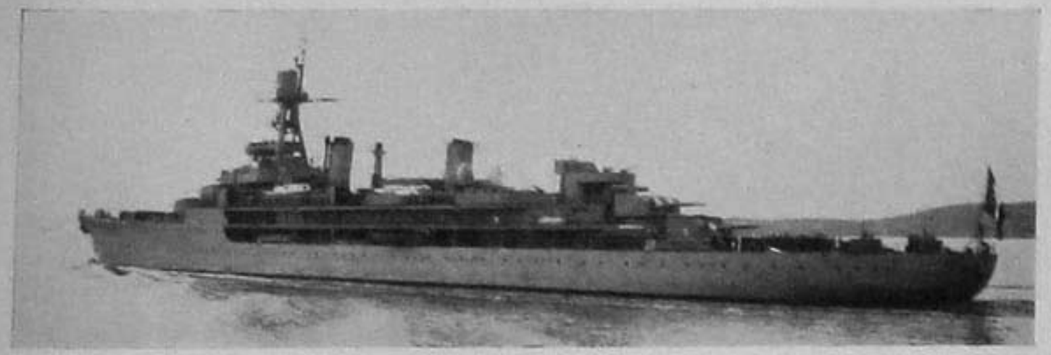
General Notes.—Ordered under 1932 Programme. These ships resemble the *Emile Bertin* with additional protection which is said to be capable of resisting 6-inch shell. A feature of the design is the long quarter-deck. Altogether the design of these cruisers is a remarkably successful one, embodying the maximum advantage to be obtained from their relatively low displacement. *Georges Leygues* will have mainmast similar to *Gloire*. Three sister ships, *La Galissonniere*, *Jean de Vienne*, and *Marseillaise*, were scuttled at Toulon in Nov. 1942.

Engineering Notes.—Trials : *Montcalm*, 35·7 kts. Sea speed about 30 kts. Fuel consumption reported to be exceptionally low in this class. After her last refit in spring 1952 *Montcalm* steamed for two hours at 31·5 kts. at deep load.

Name	*Builder*	*Machinery*	*Laid down*	*Launched*	*Completed*
Gloire	F. C. Gironde	A. Ch. de Bretagne	1933	28 Sep., 1935	Dec., 1937
Georges Leygues	Penhoet, St. Nazaire	Penhoet, St. Nazaire	1933	24 Mar., 1936	4 Dec., 1937
Montcalm	F. C. Med.	F. C. Mediterranee	1933	26 Oct., 1935	Oct., 1937

Cadets' Training Cruiser.

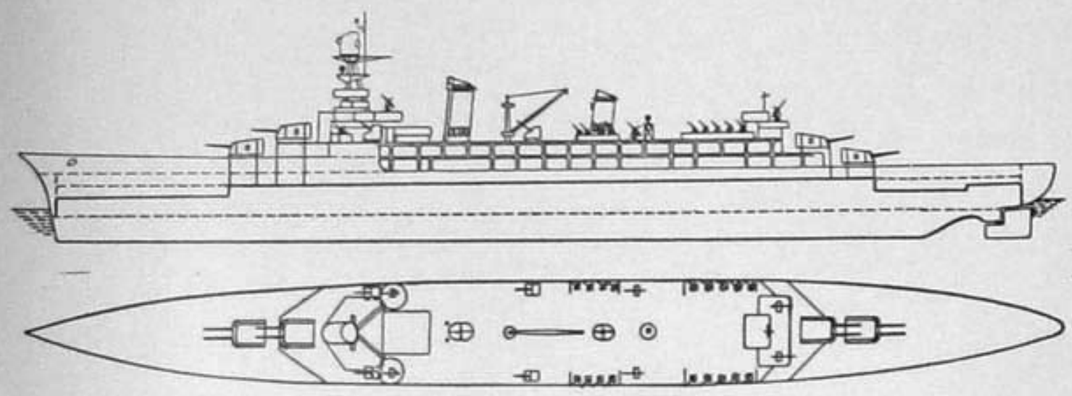
(*Croiseur-Ecole*).



Added 1953, courtesy M. Henri Le Masson

JEANNE D'ARC

Builders :	Penhoët, St. Nazaire
Laid down	1928
Launched :	14 Feb., 1930
Completed :	Sep., 1931
Displacement :	6,496 tons *standard* (9,200 tons *full load*)
Dimensions :	Length : 525 (*pp.*), 557½ (*o.a.*) feet. Beam : 57½ feet. Draught : 17½ (*mean*), 20½ (*max.*) feet
Guns :	8—6·1 inch, 4—3 inch AA., 10—40 mm. AA., 20—20 mm. AA.
Armour :	Protective deck and light plating to gun-houses and conning tower
Machinery :	Parsons geared turbines. 2 shafts. Designed H.P. : 32,500 = 25 kts. (27·8 kts. on trials)
Boilers :	4 Penhoët
Oil fuel :	1,430 tons
Radius :	5,200 miles at 11 kts., 3,200 miles at 21 kts.
Complement :	506 (peace) ; 648 (war)



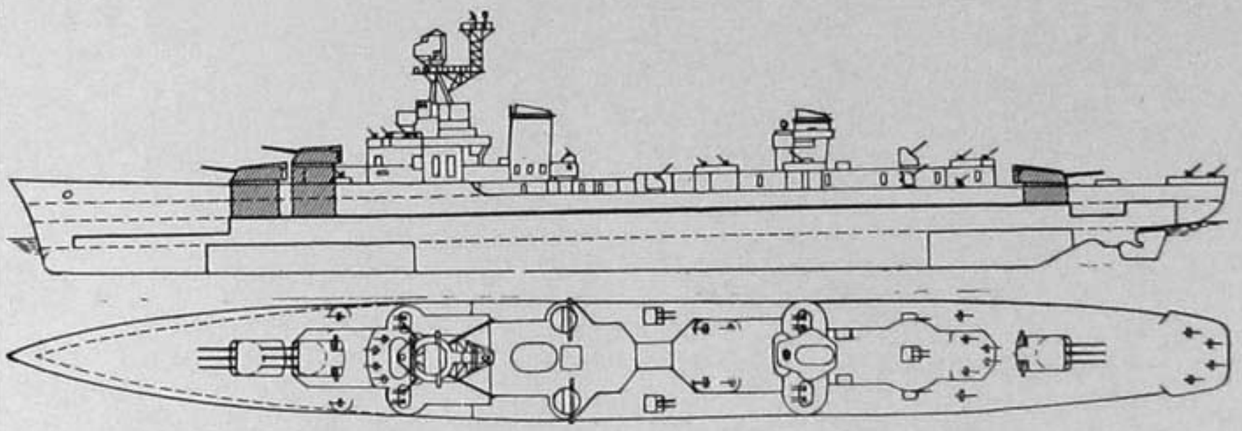
eneral Notes.—Authorised under 1927 Programme. This ship was specially designed for duty as a training cruiser and can accommodate 156 midshipmen and cadets and 20 instructional officers, in addition to ordinary complement.

ngineering Notes.—On 3 hours' full power trials developed an average of 39,200 S.H.P. = 27·03 (*mean*), 27·84 (*max.*) kts.

1951, A. & J. Pavia.

EMILE BERTIN

Builders :	Penhoët, St. Nazaire
Laid down :	Aug., 1931
Launched :	9 May, 1933
Completed :	1934
Displacement :	5,886 tons (8,500 tons *full load*)
Dimensions :	Length : 548 (*pp.*), 580½ (*o.a.*) feet. Beam : 51½ feet. Draught : 17½ feet (*max.*)
Guns :	9—5·9 inch, 8—3·5 inch AA., 16—40 mm. AA., 20—20 mm. AA.
Mines :	200 (unofficial)
Armour :	2"-1" deck
Machinery :	Parsons geared turbines. 4 shafts. S.H.P. : 102,000 = 34 kts.
Boilers :	6 Penhoët
Oil fuel :	1,360 tons
Complement :	567 (peace) ; 705 (war)



General Notes.—Authorised under the 1930 Programme. Named after the famous naval architect. Was employed as seagoing gunnery training ship until 1952, when she was reduced to special reserve. Now harbour depot ship at Toulon.

Gunnery Notes.—The triple mounting made its first appearance in the French Navy in this ship. Hull strengthened beneath turrets to permit salvo firing, 1935.

Engineering Notes.—On trials, the ship exceeded expectations, maintaining 37 kts. for an hour in a 13 ft. swell. Maximum power and speed on trials, 123,000 = 39·8 kts.

Anti-Aircraft Cruisers.

1 New Construction.

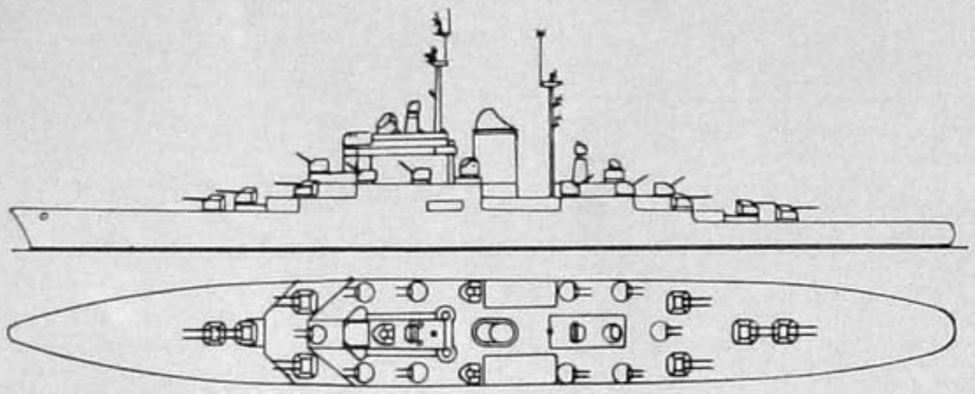
Displacement :	8,270 tons (trial displacement 11,000 tons).
Guns :	16—5 inch AA., (twin mounts), 24—57 mm. Bofors AA., (twin).
Aircraft :	1 helicopter.
Armour :	See notes.
Machinery :	S.H.P. : 86,000 = 32 kts.
Radius :	4,000 miles at 25 kts.

Notes.—Provision has been made in the design so that she can be fitted eventually with air-guided missiles. Will have new protection, quite different to that of *De Grasse*, and a platform for a helicopter. To be built in Brest dockyard.

Artist's Impression. 1952, C. W. E. *Richardson*

DE GRASSE

Builders :	Lorient Dockyard
Engineers :	A. & C. de Bretagne
Laid down :	Nov., 1938
Launched :	11 Sep., 1946
Displacement :	8,000 tons (10,300 tons *full load*)
Dimensions :	Length : 592 feet. Beam : 60½ feet. Draught : 18½ feet (*mean*)
Guns :	16—5 inch AA., 20—57 mm. AA. Bofors twin mounts
Armour :	Generally similar to " Gloire " class.
Machinery :	Rateau-Chantiers de Bretagne geared turbines. 2 shafts. S.H.P. : 120,000 = 33·5 kts.
Boilers :	4
Complement :	1,074 (78 officers and 1,010 men with Admiral on board)



General Notes.—Ordered under 1937 Estimates. Construction suspended during enemy occupation of Lorient, but resumed in 1946 until launch. Building then again stopped pending study of new anti-aircraft equipment and owing to financial situation. Construction again resumed on 9 Jan., 1951. Being completed in Brest dockyard as an anti-aircraft cruiser to modified design with modern armament. To start acceptance trials, 1 Oct., 1953.

Anti-Submarine and Anti-Aircraft Leaders.

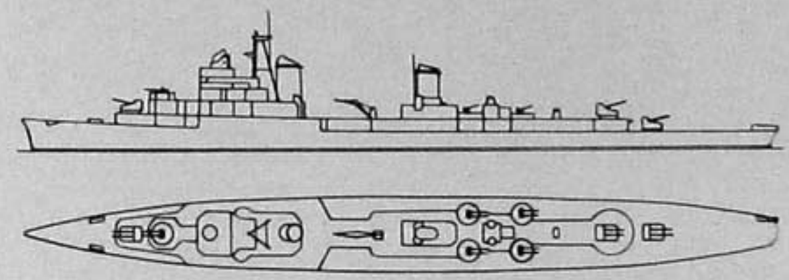
(Rated as *Escorteurs de Première Classe*).

2 " Chateaurenault " Class.

CHATEAURENAULT (appearance now being altered—see plan) 1949, *Emery.*

CHATEAURENAULT (*ex-Attilio Regolo*) GUICHEN (*ex-Scipione Africano*)

Displacement :	4,835 tons (5,400 tons *full load*) officially revised figures.
Dimensions :	Length : 444½ (*pp.*), 455½ (*w.l.*), 456½ (*o.a.*) feet. Beam : 47½ feet. Draught : 15 (*mean*), 17¾ (*max.*) feet
Guns :	6—4·1 inch AA. (ex-German) twin mounts, 10—57 mm. Bofors AA., twin mounts
Tubes :	New torpedo tubes
A/S weapons :	Extensive A/S armament
Armour :	Practically nil
Machinery :	2 sets geared turbines. 2 shafts. Designed S.H.P. : 120,000 = 41 kts. (trial speed 38·3 kts.)
Boilers :	4, of 3-drum type
Oil fuel :	1,400 tons
Radius :	6,800 miles at 10 kts. ; 3,600 miles at 18 kts. ; 1,800 miles at 30 kts.
Complement :	420 war (329 peace)



Notes.—Former Italian light cruisers. Acquired in 1948 as France's share of surrendered Italian tonnage. These ships were lightly constructed with alloy superstructure, strength having been sacrificed to speed, but are good sea-boats. Originally equipped for minelaying. They are being modernised and fitted as fast A/S and AA. cruisers with new main armament of the excellent ex-German 105 mm. pattern. Rebuilding for ASW is equivalent to the United States hunter-killer-ship *Norfolk* (Destroyer Leader). Reconstruction of both has been allocated to the F.C. Mediterranéé, La Seyne Dockyard. Taken in hand summer 1951.

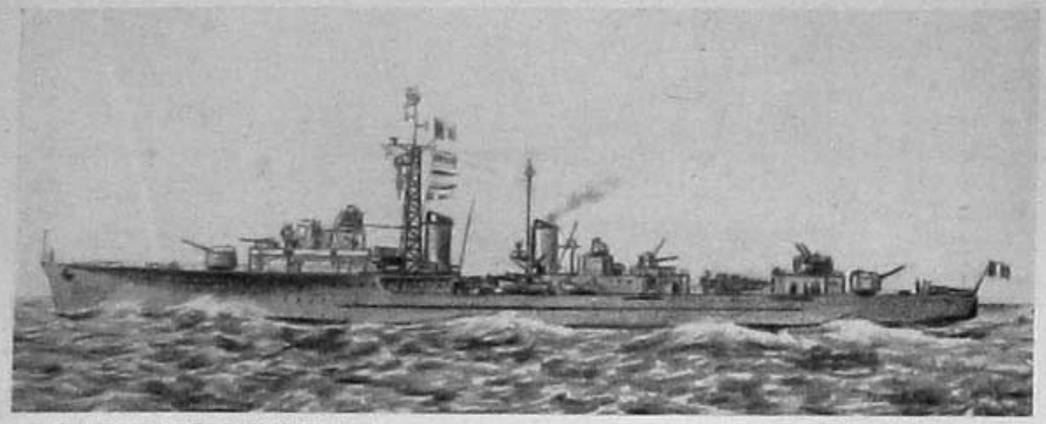
Name	*Builder*	*Laid down*	*Launched*	*Completed*	*Converted*
Chateaurenault	O.T.O., Leghorn	28 Sep., 1939	28 Aug., 1940	14 May, 1942	1 Apr., 1953
Guichen	O.T.O., Leghorn	28 Sep., 1939	12 Jan., 1941	18 Feb., 1943	1 July, 1953

General Notes for Escort Vessels.—The rates "Croiseurs Legers," "Contretorpilleurs," "Torpilleurs," "Avisos de Première Classe," and "Avisos de Deuxième Classe" were abolished in 1951. Vessels of these categories are now divided into two classifications, i.e., "Escorteurs de Première Classe" and "Escorteurs de Deuxième Classe," the former embracing all anti-aircraft and anti-submarine vessels with speeds of over 30 kts., whatever their displacement, and the latter including vessels with speeds of less than 30 kts.

Jurien de la Graviere (ex-Italian *Mitragliere*) was scheduled to be refitted as an attendant escort vessel attached to aircraft carriers.

NEW CONSTRUCTION.

17 Fast AA. Type (Rated as *Escorteurs de Premiere Classe*).



Artist's Impression (from official drawings). 1952, *C. W. E. Richardson.*

BOUVET	**D'ESTRÉES**	**KERSAINT**	**B 13**
CASABIANCA	**DU CHAYLA**	**SURCOUF**	**B 14**
CASSARD (12 May 1953)	**DUPETIT THOUARS**	**MAILLÉ-BRÉZÉ**	**B 15**
CHEVALIER PAUL (30 June 1953)	**GUÉPRATTE**	**VAUQUELIN**	**B 16**
			B 17

Displacement :	2,750 tons, 3,300 tons for trials, (3,700 tons *full load*)
Dimensions :	420 (*o.a.*) × 42¼ × — feet
Guns :	6—5 inch AA. (twin mounts), 6—2·25 inch (57 mm.) AA., 6—20 mm. AA.
Tubes :	6—21·7 inch in two triple mountings
A/S weapons :	New anti-submarine equipment
Machinery :	Geared turbines. 2 shafts. S.H.P. : 63,000 = 34 kts. (60,000 S.H.P. : = 32 kts. at full load)
Oil fuel :	700 tons
Radius :	5,000 miles
Boilers :	4 (500 lb./sq. in. working pressure)

Notes.—One authorised under 1949 Programme, one 1950, four 1951, eight 1952. These vessels, very largely inspired by the successful *Valta* and *Mogador* of 1939, were designed as Escorteurs Rapides Anti-aerien, but re-rated as Escorteurs de Première Classe in 1951. First six launched in 1953. Acceptance trials of *Surcouf* to start July, 1953. Six more to be launched in 1954.

Constructional Notes.—The lattice mast as redesigned early 1952, is essentially a strong tripod with some lattice. Hull of *Surcouf* comprises 84 prefabricated welded parts some of which weigh 32 tons.

Name	*Builders*	*Laid down*	*Name*	*Builders*		
Bouvet	Lorient	June, 1952	*Maillé-Brézé*	Lorient	B 13	
Cassard	A.C. Bretagne	June, 1952	*Vauquelin*	Lorient	B 14	
Chevalier Paul	F. C. Gironde	June, 1952	*D'Estrées*	Brest	B 15	1953 programme
Dupetit Thouars	Brest	June, 1952	*Du Chayla*	Brest	B 16	
Kersaint	Lorient	1 Dec., 1951	*Guépratte*	A. C. Bretagne	B 17	
Surcouf	Lorient	16 July, 1951	*Casabianca*	F. C. Gironde		

2 Light ex-German Type (Rated as *Escorteurs de Première Classe*).

LE LORRAIN. 1952, *Marius Bar.*

L'ALSACIEN. 1950, *Marius Bar*

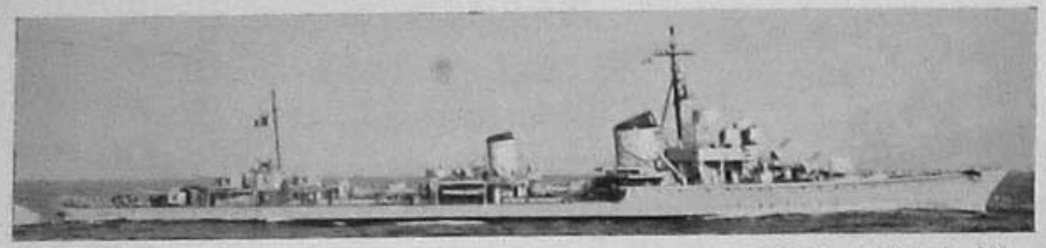
L'ALSACIEN (*ex-T 23*) **LE LORRAIN** (*ex-T 28*)

Displacement :	1,200 tons (1,750 tons *full load*)
Dimensions :	310 (*pp.*), 319 (*o.a.*) × 30 × 8¼ feet
Guns :	4—4·1 inch, (*Lorrain* 3—4·1 inch, see notes) 4—40 mm. AA., 18—20 mm. AA.
Tubes :	6—21 inch, 6 D.C.T.
Mines :	Stowage for 70
Machinery :	Geared turbines. 2 shafts. S.H.P. : 35,000 = 32 kts.
Boilers :	4 Wagner, 155 lb. sq. in. working pressure
Oil fuel :	350 tons
Radius :	2,600 miles at 15 kts.
Complement :	143 (peace) ; 202 (war)
Boilers :	4 Wagner, 155 lb./sq. in. working pressure

Notes.—Both refitted and recommissioned in June, 1949, and attached to the anti-submarine training establishment at Toulon. Formerly rated as torpilleurs but re-rated Escorteurs de Premiere Classe in 1951. *Lorrain* now has a special Asdic compartment instead of her bow 4·1 inch gun.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
L'Alsacien	Schichau, Elbing	1940	Nov., 1941	Dec., 1942
Le Lorrain	Schichau, Elbing	1940	Nov., 1945	Jun. 1943

3 Large ex-German Type (Rated as *Escorteurs de Première Classe*).



MARCEAU. 1953, *Lieut. A. W. Sugden, R.N.*

	HOCHE (*ex-Z 25*)	**MARCEAU** (*ex-Z 31*)
Displacement :	2,660 tons (3,650 tons *full load*)	
Dimensions :	388½ (*pp.*), 403½ (*o.a.*) × 38½ × 9½ (*light*), 14½ (*max.*) feet	
Guns :	*Hoche*, 3—5·9 inch, 8—40 mm. AA. (twin mounts) ; *Marceau*, 4—5·9 inch, 8—40 mm. AA., 8—20 mm. AA.	
Tubes :	8—21 inch, 4 D.C.T.	
A/S weapons :	New anti-submarine equipment (*Hoche*)	
Mines :	30 to 40	
Machinery :	Geared turbines. 2 shafts. S.H.P. : 70,000 = 37·75 kts.	
Boilers :	6 Wagner, 176 lb. working pressure	
Oil fuel :	620 tons	
Radius :	3,200 miles at 16·5 kts., 2,500 miles at 19 kts., 1,900 miles at 22 kts.	
Complement :	235 (peace) ; 320 (war).	

General Notes.—Acquired by French Navy in 1946. Formerly rated Contretorpilleurs. Re-rated Escorteurs de Première Classe in 1951.
Gunnery Notes.—5·9 inch guns are not AA., having only 45 degrees maximum elevation. Armament has been modified recently.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Hoche	Deschimag, Bremen	Feb., 1939	1940	Dec., 1940
Marceau	Deschimag, Bremen	1940	1941	1942

1952, *Marius Bar.*

KLEBER (*ex-Theodor Riedel*)

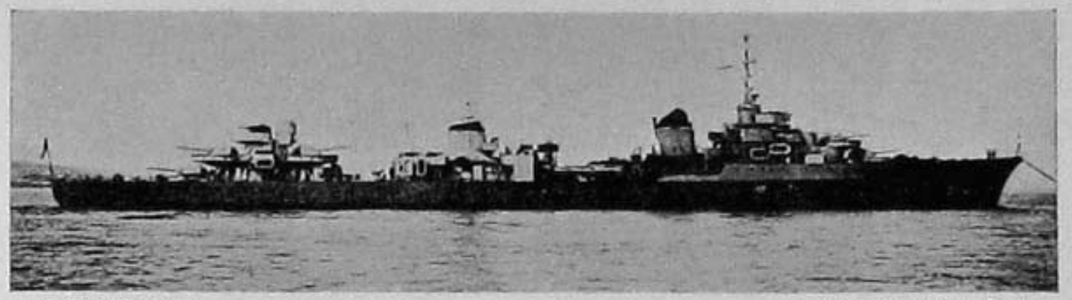
Builders	Deschimag, Bremen
Laid down :	1935
Launched :	1936
Completed :	July 1937
Displacement :	2,310 tons (3,400 tons *full load*)
Dimensions :	374 (*pp.*), 381 (*o.a.*) × 37½ × 9½ (*light*), 15 (*max.*) feet
Guns :	4—5 inch, 6—40 mm. Bofors AA., 8—20 mm. AA.
Tubes :	8—21 inch
Machinery :	Geared turbines. 2 shafts. S.H.P. : 70,000 = 38·25 kts. (30-31 kts. at *full load*, 1952)
Boilers :	6 Wagner
Oil fuel :	700 tons
Radius :	2,300 miles at 19 kts.
Complement :	13 officers, 236 ratings.

Notes.—Formerly rated as Contretorpilleur until 1951 when she was re-rated Escorteur de Première Class. Complete refit, 1950-51.

Ex-Light Cruiser Type (Rated as *Escorteurs de Première Classe*).

4 Fantasque Class.

LE MALIN. 1952, *Marius Bar.*



LE TRIOMPHANT. 1948, *French Navy, Official.*

	LE FANTASQUE	**LE MALIN**	**LE TERRIBLE**	**LE TRIOMPHANT**
Displacement :	2,569 tons (3,500 tons *full load*)			
Dimensions :	411½ (*pp.*), 434½ (*o.a.*) × 39½ × 14 (*mean*) feet			
Guns :	5—5·5 inch, 8—40 mm. AA., 8—20 mm. AA., 4 D.C.T. (*Le Terrible*, *Le Malin*, 10—20 mm., *Le Triomphant* 11—40 mm.)			
Tubes :	6—21·7 inch (tripled)			
Machinery	2 sets geared turbines. Parsons in *Le Malin* and *Le Triomphant* ; Rateau-Chantiers de Bretagne in others. S.H.P. : 74,000 = 37 kts. (See Engineering Notes)			
Boilers :	4 small tube, constructed by Penhoët, A. C. Loire and Babcock			
Oil fuel :	650 tons			
Complement:	220			

General Notes.—All 1930 Programme. Formerly rated as light cruisers (Croiseurs Légers) until 1951 when they were re-rated as Escorteurs de Première Classe. They were completely refitted in U.S.A., 1942-44. *Le Triomphant* may be cannibalised.

Engineering Notes.—On trials, *Le Terrible* reached record speed of 45·25 kts. with about 100,000 H.P., average for one hour being 44·9 kts. with 94,200 S.H.P. On her 8 hours' trial she averaged 43 kts. All the ships of this class are excellent sea-boats, able to maintain high speed continuously. Present best speed (loaded condition) is 35 kts.

Appearance Notes.—No mainmast in these ships ,w.t. aerials being slung from brackets on second funnel. Since 1948 have a very small tripod abaft second funnel.

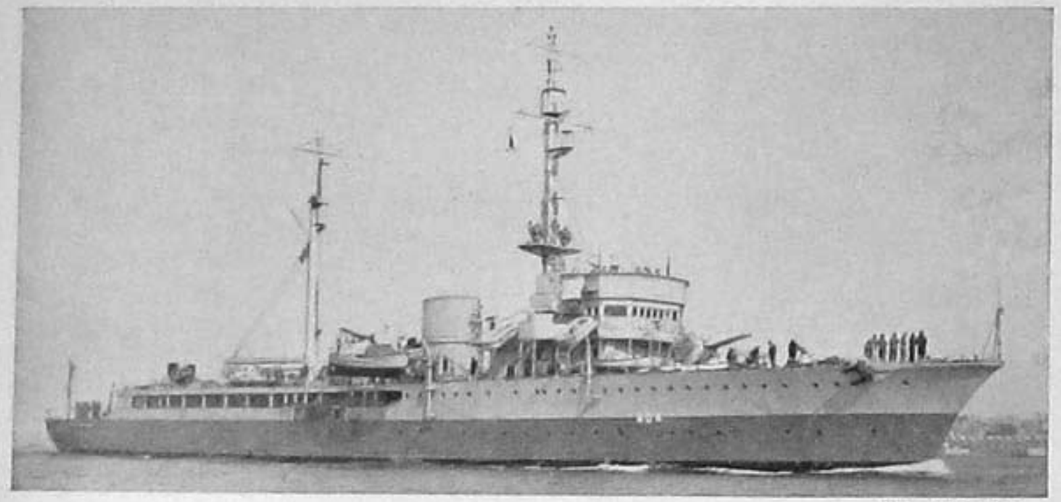
Name	*Builders*	*Laid down*	*Launched*	*Completed*
Le Fantasque	Lorient	Nov., 1931	15 Mar., 1934	1935
Le Malin	F. Ch. de la Méditerranée, La Seyne	Nov., 1931	17 Aug., 1933	1935
Le Terrible	Ch. Nav. Francais, Blainville	Nov., 1931	30 Nov., 1933	1935
Le Triomphant	Ch. de France, Dunkerque	Nov., 1931	16 Apr., 1944	1935

1949, *Marius Bar, Toulon.*

ALBATROS

Builders :	At. et Ch. de la Loire
Laid down :	1929
Launched :	28 Jun., 1930
Completed :	1931
Displacement :	2,441 tons (3,500 tons *full load*)
Dimensions :	423½ × 40 × 16 feet
Guns :	3—5·5 inch, 2—4 inch, 2—3 inch, 3—40 mm.
Tubes :	3—21·7 inch
Machinery :	2 sets Parsons geared turbines. S.H.P. : 30,000 = 25 kts.
Boilers :	2 Indret small tube
Oil fuel :	440 tons
Radius :	2,000 miles at 13 kts., 1,000 miles at 24 kts.
Complement :	189

Notes.—Built under 1927 Programme. Formerly classed as Contretorpilleur (Destroyer). Reconstructed 1948, boiler power being halved. Tender to Gunnery School. Re-rated as Second Class Escort Vessel in 1951, and as destroyer escort First Class in 1953



1950, *Marius Bar.*

FRANCIS GARNIER *(ex-Eritrea)*

Builders :	Castellammare
Laid down	25 Jul., 1935
Launched :	19 Sept., 1936
Completed :	Jun., 1937
Displacement	2,172 tons *standard*, 2,500 tons *full load*)
Dimensions :	251½ *(w.l.)*, 274 *(o.a.)* × 43¾ × 11½ *(mean)* feet
Guns :	3—4·7 inch, 4—40 mm. AA., 4—20 mm. AA.
Machinery :	2 Fiat Diesels, with electric drive to 2 Marelli motors. 2 shafts. H.P. : 8,000 = 20 kts.
Fuel :	320 tons
Complement :	231 (war)

Notes.—Designed by Engineer Major-General Icilio d'Esposito. Fitted for minelaying. Ordered May 8, 1935. Ex-Italian. Sloop type. Formerly rated as Aviso de Première Classe. Re-rated as Escorteur de Deuxième Classe in 1951.

3 Tropical Type.

LA GRANDIÈRE. 1953, *R. M. Scott*

SAVORGNAN DE BRAZZA. *Added 1953, courtesy M. Henri Le Masson.*

	DUMONT D'URVILLE	**LA GRANDIÈRE** *(ex-Ville d'Ys)*	**SAVORGNAN DE BRAZZA**
Displacement :	1,969 tons *standard* (2,600 tons *full load*)		
Dimensions :	340 × 41¾ × 14¼ feet		
Guns :	3—5·5 inch, 4—40 mm. AA., 11—20 mm. AA.		
Mines :	40		
Machinery :	2 sets Sulzer Diesels. 2 shafts. B.H.P. : 3,200 = 15·5 kts.		
Fuel :	220 tons (*La Grandière*, 325 tons) + 60 tons for use in auxiliary boilers. Consumption at 10 kts. averages 26·55 lb. per mile		
Radius :	13,000 miles at 8·5 kts., 7,600 at 15 kts.		
Complement :	135 peace, 194 war		

Notes.—Authorised under 1927, 1928 and 1937 Programmes, respectively. Designed for tropical service, with a special arrangement for circulation of cool air. All are fitted as flagships. They have proved most efficient and reliable in service. Colonial sloop type. Formerly rated as Avisos de Première Classe. Re-rated as Escorteurs de Deuxième Classe in 1951.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Dumont D'Urville	F. et Ch. Gironde	1927	21 Mar., 1931	1932
La Grandière	A. C. Provence	1938	Jun., 1939	1940
Savorgnan de Brazza	C. M. Sud-Ouest	1929	18 Jun., 1931	1933

NEW CONSTRUCTION.

13 Oceangoing (A/S and AA.) Type (Rated as *Escorteurs de Deuxième Classe*).

LE BORDELAIS **LE BRESTOIS** E 5 E 7 E 9 E 11 E 13
LE BOULONNAIS **LE CORSE** E 6 E 8 E 10 E 12

Displacement :	1,310 tons, 1,528 tons for trials (1,702 tons *full load*)
Dimensions :	315 × 33½ × — feet
Guns :	6—2·25 inch (57 mm.) AA. (twin mounts), 2—20 mm. AA.
A/S weapons :	1 D. C. rack, 2 mortars, 1 quadruple lance-roquettes, 12 tubes (four triple) for new special homing torpedoes
Machinery :	Geared turbines, S.H.P. : 20,000 = 27 kts.
Complement :	198

Notes.—Two authorised under 1949 Programme, two 1950, eight 1952. Intended as seagoing convoy escort vessels with a very large radius of action. Designed as Escorteurs Rapides Anti-Sousmarins. Re-rated as Escorteurs de Deuxième Classe in 1951. First four laid down end of 1951. Completion expected 1953-54. Design stated to resemble closely that of new U.S. D.E. *Dealy*.

Name	*Programme*	*Builders*	*Launched*	*Hull*	*Hull*	*Programme*
Le Bordelais	1950	F. Ch. de la Mediterranee		E 5	E 9	1952
Le Boulonnais	1950	A. C. Loire	12 May, 1953	E 6	E 10	1952
Le Brestois	1949	Lorient Navy Yard	15 Dec., 1952	E 7	E 11	1953
Le Corse	1949	Lorient Navy Yard	5 Aug., 1952	E 8	E 12	1953
					E 13	1953

E 7, 8, 9 builders A. C. Loire, E 5, 6, 10 F. C. Mediterranee (La Seyne), E 11 Penhoet.

3 Ex-U.S. Type (Rated as *Escorteurs de Deuxième Classe*).

LE VERRIER. 1949, *Official*.

LE BRIX (*ex-Manitowoc*) **MERMOZ** (*ex-Muskegon*) **LE VERRIER** (*ex-Emporia*)

Displacement :	1,400 tons (2,360 tons *full load*)
Dimensions :	285½ (*w.l.*), 304 (*o.a.*) × 37½ × 13½ feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts. (economical speed 12·5 kts.)
Boilers :	2, of 3-drum type
Complement :	88 peace

Notes.—Ex-U.S. frigates adapted for weather observation in N. Atlantic. Formerly rated as Frégates Météorologiques, but re-rated Escorteurs de Deuxieme Classe in 1951. These ships officially belong to the Ministry of Transport and Public Works, and are not now manned by the French Navy. No armament but they would again be used as escort vessels in wartime. *Laplace* exp.oded and sank off Cape Frehel, Sept. 16, 1950. Reported to have struck a magnetic mine.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Le Brix	Globe, Superior	1942	30 Nov., 1943	1944
Mermoz	Walter Butler, Superior, Wisc.	1942	25 Jul., 1943	1943
Le Verrier	Walter Butler, Superior, Wisc.	1942	30 Aug., 1943	1944

Ex-British Type (Rated as *Escorteurs de Deuxième Classe*).

6 "Aventure" Class.

TONKINOIS. 1951, *A. & J. Pavia*.

LA DÉCOUVERTE. 1951, *A. & J. Pavia*.

L'AVENTURE (*ex-H.M.S. Braid*) **L'ESCARMOUCHE** (*ex-H.M.S. Frome*)
CROIX DE LORRAINE (*ex-H.M.S. Strule, ex-Glenarm*) **LA SURPRISE** (*ex-H.M.S. Torridge*)
LA DÉCOUVERTE (*ex-H.M.S. Windrush*) **TONKINOIS** (*ex-H.M.S. Mayola*)

Displacement :	1,365 tons (2,130 tons *full load*)
Dimensions :	301½ (pp.), 305½ (*o.a.*) × 36¾ × 12 feet
Guns :	2—4·1 inch, 2 or 3—40 mm., 6 or 8—20 mm. AA., 4 D.C.T. (*Tonkinois* has 1—40 mm. AA. in the stern.)
Machinery	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers :	2, of 3-drum type
Oil fuel :	645 tons (*Croix de Lorraine*, 440 tons)
Complement :	119 peace, 141 war

Notes.—All ex-British frigates of "River" type, purchased in 1943-44. Lattice masts in *Croix de Lorraine*, *L'Escarmouche* and *Tonkinois* tripod in *L'Aventure* and *La Découverte*. Formerly rated as Frégates. Re-rated Escorteurs de Deuxième Classe in 1951.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
L'Aventure	Wm. Simons & Co., Ltd.	1 Dec., 1942	30 Nov., 1943	21 Jan., 1944
Croix de Lorraine	Henry Robb, Ltd.	15 Jul., 1942	8 Mar., 1943	30 Jul., 1943
La Découverte	Henry Robb, Ltd.	18 Nov., 1942	18 Jun., 1943	3 Nov., 1943
L'Escarmouche	Blyth S.B. & D.D. Co., Ltd.	30 May 1942	1 Jun., 1943	3 Mar., 1944
La Surprise	Blyth S.B. & D.D. Co., Ltd.	17 Oct., 1942	16 Aug., 1943	6 Apr., 1944
Tonkinois	Smith's Dock Co., Ltd.	9 Feb., 1942	27 Aug., 1942	15 Jan., 1943

Ex-U.S. Type (Rated as *Escorteurs de Deuxième Classe*).

14 "Sénégalais" Class.

SÉNÉGALAIS — 1952, *Marius Bar.*

1st Group

ALGÉRIEN (*ex-DE 107*) **MAROCAIN** (*ex-DE 109*) **SOMALI** (*ex-DE 111*)
HOVA (*ex-DE 110*) **SÉNÉGALAIS** (*ex-DE 106*) **TUNISIEN** (*ex-DE 108*)

2nd Group

ARABE (*ex-Samuel S. Miles, DE 183*) **KABYLE** (*ex-Riddle, DE 185*) **SOUDANAIS** (*ex-Cates, DE 763*)
BAMBARA (*ex-Swearer, DE 186*) **MALGACHE** (*ex-Baker, DE 190*) **TOUAREG** (*ex-Bright, DE 747*)
BERBERE (*ex-Clarence L. Evans, DE 113*) **SAKALAVE** (*ex-Wingfield, DE 194*)

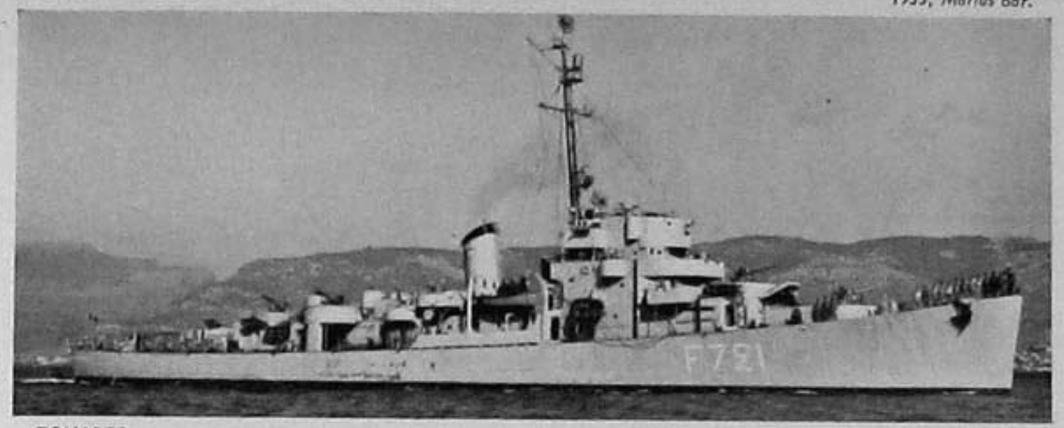
Displacement :	1,275 tons (1,617 tons *full load*)
Dimensions :	306 (*o.a.*) × 36½ × 10½ feet
Guns :	*1st Group* : 3—3 inch dual purpose, 2—40 mm. Bofors, 12—20 mm. Oerlikon, 8 D.C.T. *2nd Group* : have 6—40 mm., 18—20 mm., all in twin mounts.
Machinery :	Diesel-electric. 2 shafts. B.H.P. : 6,000 = 19 kts. (economical speed 12 kts.)
Radius :	11,500 miles at 11 kts., 5,500 at 19 kts.
Complement :	150 peace, 185 war

Notes.—First group of six ships acquired in 1944, first vessel (*Sénégalais*) being commissioned Jan. 2, 1944. These were formerly rated as Torpilleurs d'Escorte, but re-rated Escorteurs de Deuxième Classe in 1951. Six more *DES* of same class transferred from U.S.A. in March 1950 under Atlantic Pact. *Arabe* and *Kabyle* turned over to France 12 Aug. 1950. *Bambara* and *Sakalave* turned over later. *Soudanais* and *Touareg* delivered at Nice Nov. 1950. *Berbere* and *Malgache* transferred 29 March 1952, at Brooklyn.

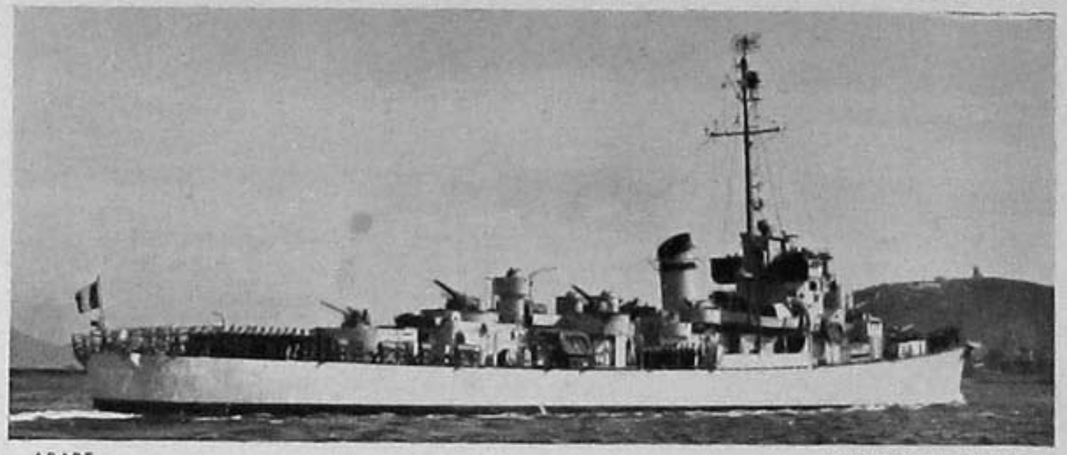
Name	*Builders*	*Launched*	*Completed**
Algérien	Dravo Corporation, Wilmington, Del.	27 Nov., 1943	23 Jan., 1944
Arabe	Federal S.B. & D.D. Co.	3 Oct., 1943	4 Nov., 1943
Bambara	Federal S.B. & D.D. Co.	31 Oct., 1943	24 Nov., 1943
Berbere	Dravo Corporation, Wilmington, Del.		25 Jun., 1944
Hova	Dravo Corporation, Wilmington, Del.	22 Jan., 1944	18 Mar., 1944
Kabyle	Federal S.B. & D.D. Co.	17 Oct., 1943	17 Nov., 1943
Malgache	Federal S.B. & D.D. Co.	28 Nov., 1943	23 Dec., 1943
Marocain	Dravo Corporation, Wilmington, Del.	1 Jan., 1944	29 Feb., 1944
Sakalave	Federal S.B. & D.D. Co.	30 Dec., 1943	28 Jan., 1944
Sénégalais	Dravo Corporation, Wilmington, Del.	11 Nov., 1943	2 Jan., 1944
Somali	Dravo Corporation, Wilmington, Del.	12 Feb., 1944	9 Apr., 1944
Soudanais	Tampa S.B. Co.	10 Oct., 1943	15 Dec., 1942
Touareg	Western Pipe & Steel Co.	26 Sep., 1943	30 Jun., 1944
Tunisien	Dravo Corporation, Wilmington, Del.	17 Dec., 1943	11 Feb., 1944

* First commissioning dates

HOVA — 1953, *Marius Bar.*



TOUAREG — 1953, *Marius Bar.*



ARABE — 1953, *Marius Bar, Toulon.*

Escorts (Rated as *Escorteurs de Deuxième Classe*).

LA PÉROUSE. *Added 1952, French Navy, Official.*

BEAUTEMPS-BEAUPRE (*ex-Sans Souci*) **LA PÉROUSE** (*ex-Sans Peur*)

Displacement :	1,372 tons (2,000 tons *full load*)
Dimensions :	311¼ × 38½ × 10½ feet
Guns :	3—4·1 inch, 2—40 mm. AA., 6—20 mm. AA.
Machinery :	Sulzer Diesels. Speed : 16 kts.
Complement :	144

Notes.—Built by Penhoët. Both laid down in 1940, launched in 1941, and completed in 1946. Formerly rated as *Avisos Coloniaux Hydrographes*. Re-rated as *Escorteurs de Deuxieme Classe* or 2nd Class Escorts (Frigates) in 1953 although they are still operated as surveying vessels (*Bâtiments Hydrographes*).

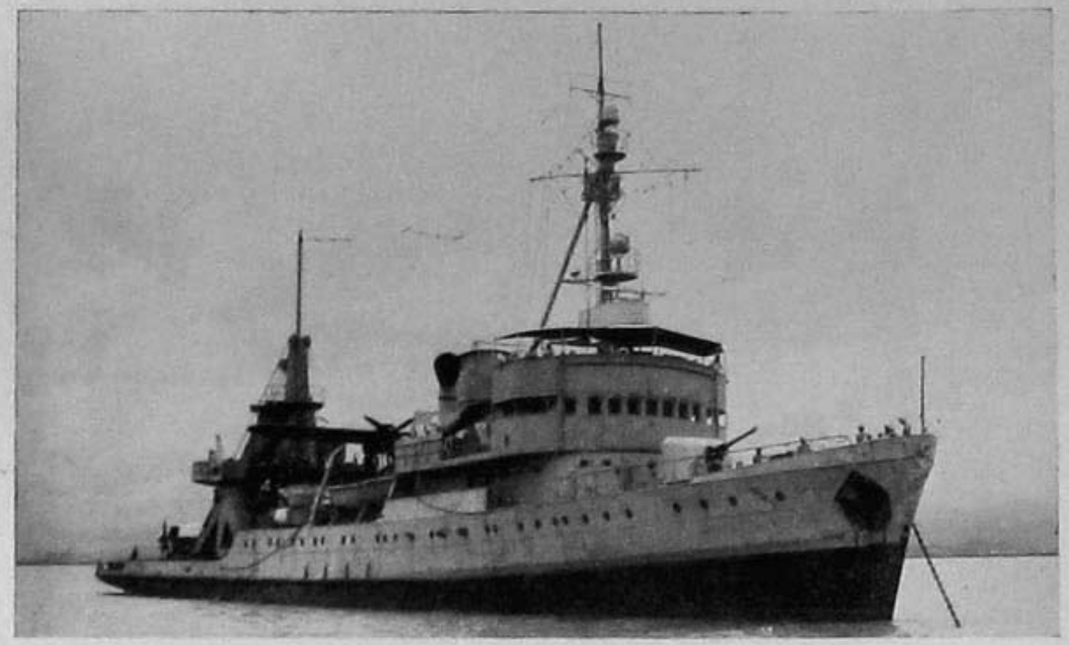
AMIRAL MOUCHEZ 1951, *Skyfotos.*

Built :	Cherbourg
Laid down :	Jan., 1935
Launched :	3 Aug., 1936
Displacement :	719 tons (970 tons *full load*)
Dimensions :	203½ × 33½ × 11 feet
Guns :	2—3·9 inch, 4—20 mm. (none at present)
Machinery :	Sulzer Diesel. B.H.P. : 800 = 12 kts.
Complement :	91

Note.—Formerly rated as *Aviso Hydrographique*. Re-rated as 2nd Class escort in 1953, but employed as survey ship.

Escorts (Rated as *Escorteurs de Deuxième Classe*).

Former Aircraft Tenders (*Dépanneurs d'Aviation*)



COMMANDANT ROBERT GIRAUD. 1953, *courtesy M. Henri Le Masson.*

COMMANDANT ROBERT GIRAUD (*ex-German Immelmann*) **PAUL GOFFENY** (*ex-German Max Stinsky*)

Displacement :	979 tons (1,380 tons *full load*)
Dimensions :	239 (pp.), 246 (*o.a.*) × 36 × 12 feet
Guns :	1—4·1 inch, 2—40 mm. AA., 2—20 mm. AA.
Machinery :	4 M.A.N. Diesels. 2 shafts. B.H.P. : 8,800 = 21·5 kts.
Oil fuel :	236 tons
Complement :	77

Notes.—Former German aircraft tender. Built by Nordenwerft, Hamburg. Launched 18 Dec. and 7 Aug., 1941, respectively, *Commandant Robert Giraud* is named after a gallant naval officer who lost his life when destroyer *Bison* was sunk, May 3, 1940. Re-rated as 2nd class escorts in 1953.

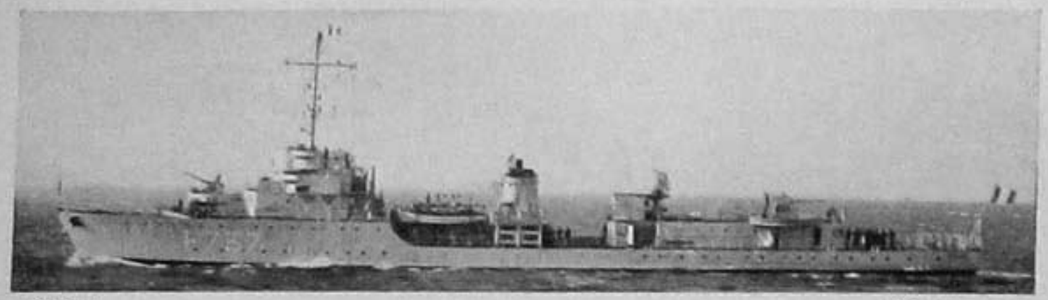
MARCEL LE BIHAN (*ex-German Greif*)

Builders :	Nordenwerft, Hamburg
Launched	1936
Completed :	1941
Displacemen:	775 tons
Dimensions :	236½ × 34½ × 9 (light)
Guns :	1—4·1 inch, 4—20 mm. AA.
Machinery :	2 sets Diesels. B.H.P. : 4,400 = 18·5 kts.
Radius :	2,000 miles at 13 kts.

Note.—Former German aircraft tender. Transferred by the United States in 1948. Re-rated as 2nd Class escort in 1953. Resembles above two ships in general design. The above three ships have been used in Indo-China, where they have given yeoman service mainly as patrol and escort vessels, support gunboats, and as carriers for commandos, as they are fast, reliable, have rather shallow draught, a good armament and can stow LCV and LCVP aft.

Escorts *(Rated as Escorteurs de Deuxième Classe).*

3 "Bisson" Class.



BISSON. 1952, *Abrahams*

	BISSON	COMMANDANT AMYOT D'INVILLE	COMMANDANT DE PIMODAN
Displacement :	660 tons (930 tons *full load*)		
Dimensions :	257 × 28½ × 12 (*max.*) feet		
Guns :	1—4·1 inch, 2—40 mm. AA., 4—20 mm., 6 D.C.T. (Bisson, 2—3·5 inch aft, 1—40 mm.)		
Machinery :	2 sets Sulzer Diesels. 2 shafts. B.H.P. : 4,000 = 20 kts.		
Radius :	8,000 miles at 10 kts.		
Oil fuel :	82 tons		
Complement :	100		

Notes.—Built under 1938 Programme. All laid down 1939. Formerly rated as Avisos de Deuxième Class, but re-rated Escorteurs de Deuxième Classe in 1951. Both this and following classes have amply demonstrated their qualities in both war and peacetime service on Indo-Chinese coasts, being robust reliable and handy, and can be relied on indefinitely at sea.

Name	*Builders*	*Launched*	*Completed*
Bisson	Lorient Dockyard	5 Mar., 1946	Sep., 1947
Commandant Amyot D'Inville	Ch. Dubigeon Penhöet	13 May, 1942	Dec., 1947
Commandant de Pimodan	A. C. Loire, St. Nazaire	29 May, 1942	Oct., 1947

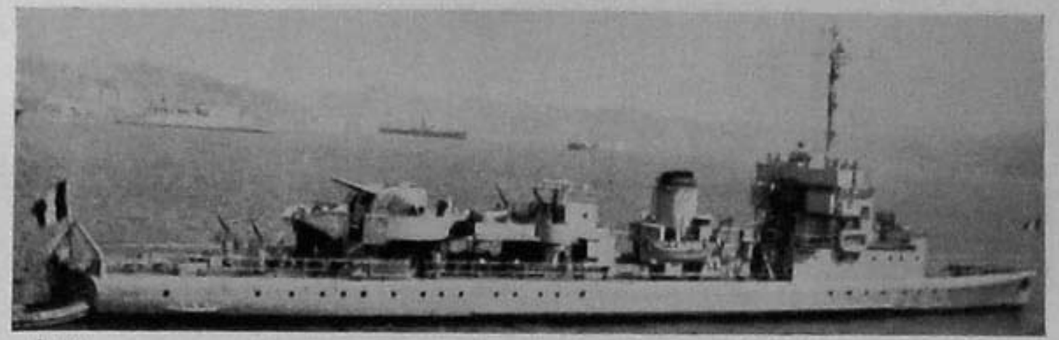
3 "Improved Élan" Class.

GAZELLE. 1950, *French Navy, Official.*

	ANNAMITE	CHEVREUIL	GAZELLE
Displacement :	647 tons *standard* (920 tons *full load*)		
Dimensions :	257 × 28½ × 10½ feet		
Guns :	2—3·5 inch (*Chevreuil* 1—4·1 inch), 1—40 mm., 6—20 mm.		
Machinery :	Sulzer Diesels. 2 shafts. B.H.P. : 4,000 = 20 kts.		
Radius :	10,000 miles at 9 kts.		
Oil fuel :	100 tons		
Complement :	92		

Notes.—*Chevreuil* and *Gazelle* built under 1935 programme, *Annamite* under that for 1937. All built at Lorient Dockyard and all launched 17 June 1939, being completed Feb. 1940, and Sep. and Oct., 1939, respectively.

9 "Élan" Class.



ÉLAN. 1953, Mr. A. *Cemaleddin Saracoglu.*

COMMANDANT DUBOC 1952, *Marius Bar.*

	COMMANDANT BORY COMMANDANT DELAGE COMMANDANT DOMINÉ	COMMANDANT DUBOC ÉLAN LA BOUDEUSE	LA CAPRICIEUSE LA GRACIEUSE LA MOQUEUSE
Displacement :	640 tons *standard* (900 tons *full load*)		
Dimensions :	256 × 28 × 10½ feet		
Guns :	2—3·5 inch, 1—40 mm. AA., 6—20 mm. AA., 2 M.G., 4 D.C.T. (*Commandant Dominé, La Capricieuse, Commandant Duboc* and *La Moqueuse* each have 1—4·1 inch, AA., 1—40 mm. AA., 6 to 8—20 mm. AA. 1 to 8 D.C.T. *Élan*, 2—4 inch, 1—40 mm., 6—20 mm.)		
Machinery :	2 sets Sulzer Diesels. 2 shafts, B.H.P. : 4,000 = 20 kts.		
Oil fuel	100 tons		

Notes.—*Élan* built under 1934 Programme, *Commandants Bory, Delage* and *Duboc* under that for 1936 ; others, 1937. Formerly rated as Avisos de Deuxième Classe. Re-rated Escorteurs de Deuxième Classe in 1951.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Commandant Bory	At. et Ch. de France	Nov., 1936	20 Jan., 1939	Sep., 1939
Commandant Delage	At. et Ch. de France	Nov., 1936	25 Feb., 1939	Dec., 1939
Commandant Dominé	Ch. Dubigeon	Feb., 1938	2 May, 1939	Apr., 1940
Commandant Duboc	Ch. Dubigeon	Dec., 1936	16 Jan., 1939	Aug., 1939
Élan	Lorient Dockyard	Aug., 1936	27 Jul., 1938	Jan., 1939
La Boudeuse	At. et Ch. de France	Mar., 1938	Sep., 1939	1940
La Capricieuse	Ch. Dubigeon	Jan., 1938	19 Apr., 1939	Feb., 1940
La Gracieuse	Ch. et At. de Provence	Feb., 1938	30 Nov., 1939	1940
La Moqueuse	Lorient Dockyard	Sep., 1938	25 Jan., 1940	Apr., 1940

NEW CONSTRUCTION.

2 Submarine Killers.

Displacement : 400 tons

Notes.—Two submarines of the SSK type for hunting other submarines are to be built under the 1953 programme.

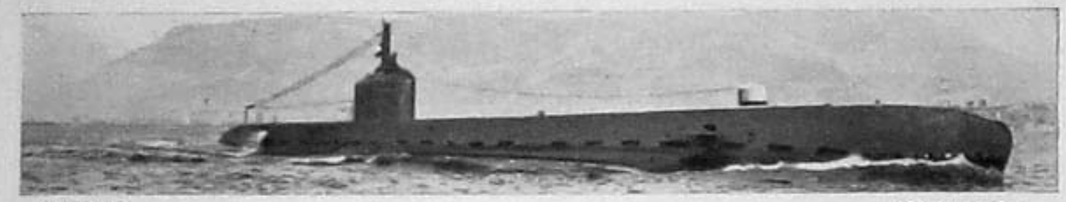
4 Oceangoing Type ("Narval" Class).

DAUPHIN **MARSOUIN** **NARVAL** **REQUIN**

Displacement :
Machinery : 1,400 tons *surface*
Schneider Diesels, B.H.P. : 4,000 ; electric motors. H.P. : 5,000

Notes.—Four new submarines have been authorised, two under 1949 Programme, two 1950. Improved replicas of the German XXI type. All being built at Cherbourg in seven prefabricated parts each of 10 metres in length. To start trials 2 in July 1954, 2 in July 1955.

3 Ex-British Type.



SULTANE. 1952, *Marius Bar.*

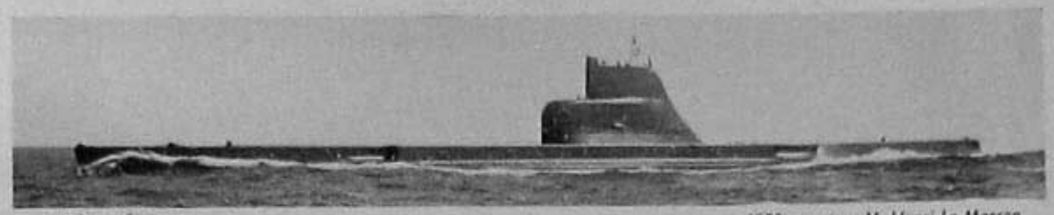
SIRENE 1953, *Marius Bar.*

SAPHIR (ex-*Satyr*) **SIRENE** (ex-*Spiteful*) **SULTANE** (ex-*Statesman*)

Displacement : 715, tons *standard*, 814 tons *surface*, 990 tons *submerged*
Dimensions : 217 (*o.a.*) × 23¾ × 10¾ feet
Guns : 1—4 inch, 1—20 mm. AA.
Tubes : 6—21 inch (bow), 13 torpedoes carried
Machinery : B.H.P. : 1,900 = 14 kts. *surface* ; H.P. : 1,300 = 10 kts. *submerged*.
Oil fuel : 44 tons

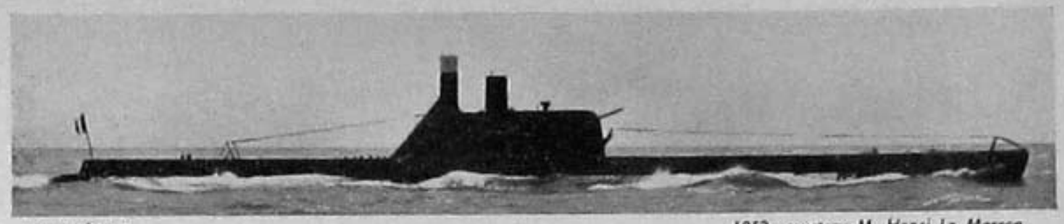
Notes.—Four of this class were transferred from British Navy to French Navy 1951-1952. Lent for 4 years for anti-submarine training. *Sibylle* (ex-Sportsman) was lost accidentally with all hands 23 Sep., 1952, near Toulon.

5 Créole Class.

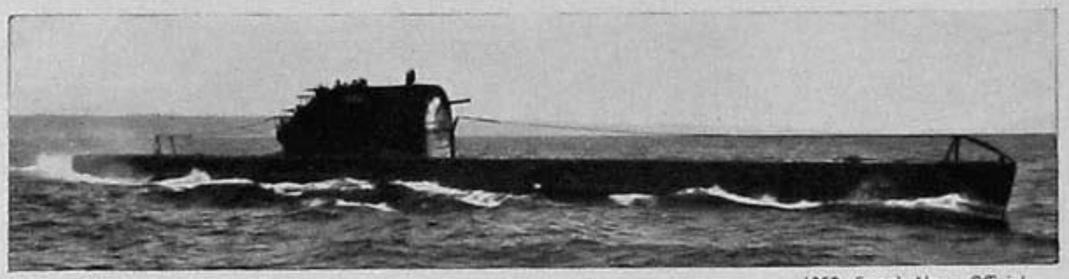


ANDROMÉDE 1953, *courtesy M. Henri Le Masson.*

AFRICAINE 1953, *A. & J. Pavia.*



LA CRÉOLE. 1952, *courtesy M. Henri Le Masson.*



L'ASTRÉE. 1950, *French Navy, Official.*

L'AFRICAINE **L'ANDROMÉDE** **L'ARTEMIS** **L'ASTRÉE** **LA CRÉOLE**

Displacement : 820 tons *standard*, 910 tons *surface*, 1,170 tons *submerged*
Dimensions : 241 × 21 × 11¾ feet
Guns : 1—3·5 inch (88 mm. ex-German), 2—20 mm. AA. (see notes)
Tubes : 10—21·7 inch (6 internal)
Machinery : Sulzer Diesels (Schneider in *L'Africaine*) B.H.P. : 3,000 = 17·3 kts. *surface*. Electric Motors H.P. : 1,400 (2,000 H.P. in *L'Andromède*) = 10 kts., *submerged*.

Notes.—*La Créole* was towed to England after launch in 1940, and was returned to her builders in 1946 for completion. Construction of *L'Africaine* and *L'Astrée* was also resumed. *L'Andromède* and *L'Artemis* resumed under 1949 and 1950 Programmes, respectively, given streamlined superstructure, and snort, no guns.

Name	*Builders*	*Programme*	*Laid down*	*Launched*	*Completed*
L'Africaine	Worms	1937	Sep., 1938	7 Dec., 1946	1949
L'Andromède	Dubigeon-Nantes	1938	1945	17 Nov., 1949	1952
L'Artemis	Normand	1938	1945		1953
L'Astrée	Dubigeon-Nantes	1938	1945	4 May, 1946	1949
La Créole	Normand	1937	Aug., 1938	5 Jun., 1940*	1949

* Re-launched 3 May, 1946.

Submarines.

5 Ex-German Types.

1949, *Official.*

ROLAND MORILLOT (*ex-U 2518*)

Builders :	Blohm & Voss, Hamburg
Completed:	1945
Displacement	1,600 tons (*standard*), 1,621 tons (*surface*), 1,819 tons (*submerged*)
Dimensions :	251½ × 21½ × 17 feet
Guns :	None
Tubes :	6—21 inch (23 torpedoes carried)
Machinery :	2 M.A.N. 6-cyl. Diesels. B.H.P. : 4,800 = 15 kts. ; 2 electric motors. H.P. : 5,000 = 16 kts.
Oil fuel :	250 tons

Note.—Transferred by Great Britain to French Navy.

BOUAN

1953, *Marius Bar.*

BOUAN (*ex-U 510*)

Builders :	Blohm & Voss, Hamburg
Laid down	1940
Launched :	1940
Completed :	1941
Displacement :	740 tons (*designed*), 1,120 tons (*surface*), 1,232 tons (*submerged*)
Dimensions :	249½ × 22½ × 15½ feet
Guns :	None
Tubes :	6—21 inch (22 torpedoes carried)
Machinery:	2 M.A.N. Diesels, B.H.P. : 4,500 = 18·3 kts. *surface* ; 2 Siemens electric motors. 2 shafts. H.P. 1,000 = 7·3 kts. *submerged.*
Oil fuel :	174 tons
Complement :	52

Note.—Fitted with snort and a streamlined conning tower.

Ex-German Types—*continued.*

2 " Laubie " Class.

LAUBIE.

1952, *Marius Bar.*

LAUBIE (*ex-U 766*) **MILLE** (*ex-U 471*)

Displacement :	517 tons (*designed*), 750 tons (*surface*), 850 tons (*submerged*)
Dimensions :	220 × 19½ × 13 feet
Guns :	None
Tubes :	5—21 inch (14 torpedoes carried)
Machinery :	2 G.W. Diesels, B.H.P. : 2,800 = 17 kts. ; 2 Siemens electric motors. H.P. : 850 = 7·5 kts.
Oil fuel :	129 tons
Complement :	49

Note.—Both fitted with snort.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Laubie	Blohm & Voss, Hamburg	1942	Apr., 1943	Jul., 1943
Mille	Deutsche Werke, Kiel	1941	1942	1942

BLAISON

1949, *Emery.*

BLAISON (*ex-U 123*)

Builders :	Deschimag, Bremen
Laid down	1939
Launched :	1940
Completed	1943
Displacement	740 tons (*designed*), 1,120 tons (*surface*), 1,232 tons (*submerged*
Dimensions :	242½ × 21 × 15½ feet
Guns :	4—20 mm. AA.
Tubes :	6—21 inch (22 torpedoes carried)
Machinery :	2 M.A.N. Diesels, B.H.P. : 4,500 = 18·3 kts. *surface* ; 2 Siemens electric motors, H.P. : 1,000 = 7·3 kts. *submerged.*
Oil fuel :	208 tons
Complement:	50

General Note.—*Blaison, Bouan, Laubie* and *Mille* are named after French submarine officers who lost their lives in the Second World War.

Submarines—*continued.*

1 Coastal Type.

1953, *Marius Bar.*

JUNON

Builders :	Normand
Laid down	1932
Launched	15 Sep., 1935
Completed	1936
Displacement :	579 tons *standard*, 670 tons *surface*, 858 tons submerged
Dimensions :	211 × 20 × 13¾ feet
Guns :	1—20 mm. AA.
Tubes :	6—21·7 inch and 3—15·7 inch
Machinery :	2 sets Vickers-Normand Diesels. B.H.P. : 1,800 = 14 kts. (*surface*). 2 Electric motors. H.P. : 1,200 = 9½ kts. (*submerged*)
Radius :	4,000 miles at 10 kts. (*surface*) ; 85 miles at 5 kts. (submerged)
Complement :	58

Notes.—Built under 1930 Programme. This is the sole survivor of a once numerous Admiralty coastal type of 600 tons rated as 2nd Class. She is now used as a training vessel on Asdic trials.

4 Midget Type.

No. 90. 1950, *courtesy M. Henri Le Masson.*

No. 621 (ex-74) **No. 622** (ex-90) **No. 623** (ex-107) **No. 624** (ex-365)

Displacement :	16 tons
Dimensions :	38¾ × 6 × 6 feet
Machinery :	1 Diesel, B.H.P. : 60 = 8 kts. 1 shaft. 1 electric motor. H.P. : 30 = 5
Complement :	2

Notes.—Ex-German " pocket " submarines. Two electric torpedos carried.

Ocean Minesweepers (*Dragueurs Oceaniques*).

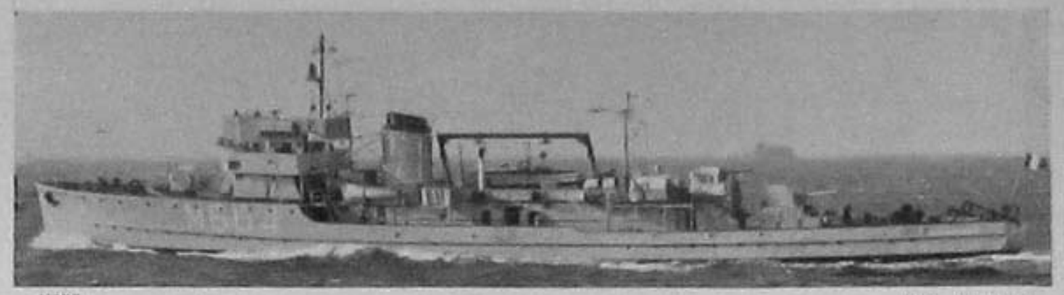
8 ex-U.S. AM Type (New Construction).

ALENÇON **BIR HAKEIM** **DOMPAIRE** **MYTHO**
BERNEVAL **CANTHO** **GARIGLIANO** **VINH LONG**

Displacement : 750 tons

Notes.—The U.S.A. agreed in Sep. 1952, to transfer to France in 1953 the above eight new AM.

9 ex-German M 35 Type.



YSER. 1952, *Abrahams.*

SOMME. 1951, *Skyfotos.*

AILETTE (ex-M24) **LAFFAUX** (ex-M 81) **SOMME** (ex-M 9)
ANCRE (ex-M 252) **MEUSE** (ex-M 28) **VIMY** (ex-M 253)
BELFORT (ex-M 205) **OISE** (ex-M 38) **YSER** (ex-M 85)

Displacement :	710 tons *standard* (800 tons *full load*)
Dimensions :	228½ × 28½ × 9 feet
Guns :	2—4·1 inch, 1—40 mm. AA., 4—20 mm. AA., (*Ancre* 1—4·1 inch, 2—20 mm.)
Machinery	Bersig-Berlin triple expansion. 2 shafts. I.H.P. : 3,200 = 18·5 kts.
Boilers :	2 Wagner
Oil fuel :	150 tons
Radius of action :	2,100 miles at 10 kts.
Complement :	100

Notes.—Formerly rated as *Avisos de Deuxieme Classe* until about 1950. Slight differences, especially in the boat handling and armament Nearly identical. Originally carried 35 mines. *Ailette* is employed as fishery patrol vessel ; others are mostly attached to instructional establishments. *Meuse* and *Oise* boat handling as in *Ancre*, built by Deusche Werft, Hamburg, and employed as Pilotage training vessel. *Belfort* built by Neptun, Rostock, *Vimy* by Deutsche Werft, Hamburg. *Belfort* fitted as leader, has a very much higher foremast than others. *Somme* has a quite different type of davit for her power boat. *Ancre* has reduced armament. *Marne* and *Suippe* of ex-German M 40 type were discarded in 1953.

2262

Coastal Minesweepers (*Dragueurs Côtiers*).

21 New Construction.

ACHERNAR	**BETELGEUSE**	**ORION**	**RIGEL**	**D 18**	**1953 Programme**
ALDEBARAN	**CASSIOPEE**	**POLLUX**	**SAGITTAIRE**	**D 19**	
ALGOL	**CASTOR**	**PROCYON**	**SIRIUS**	**D 20**	
ANTARES	**ERIDAN**	**REGULUS**	**VEGA**	**D 21**	
ARCTURUS					

Displacement :	350 tons (382 tons *full load*)
Dimensions :	137½ (p.p.) 147½ (o.a.) × 28 × 7 feet
Guns :	1—40 mm. Bofors AA., 2—20 mm. Oerlikon AA.
Machinery :	Pescara diesels, with gas turbine, 2 shafts, B.H.P. : 2,000 = 15 kts. (12 kts. when sweeping)
Complement :	40

Notes.—Seventeen laid down and eight on order. First laid down 27 Dec. 1951 at Cherbourg Dockyard. *Sirius* launched 6 Oct. 1952. Built to British specifications. Of wooden and aluminium alloy construction. Will be propelled by a special new type of engine i.e., Alsthom gas turbine with Sigma free piston generator, except *Arcturus* and *Betelgeuse* which have Pillstick light diesels. Similar to those being built in United States, Great Britain, Canada and the Netherlands of which the plans are similar for all. The original design of this type of craft was developed in close collaboration with John I. Thornycroft & Co. Ltd., Southampton, and the British Admiralty. *Aldebaran* launched 27 June, *Algol* 15 Apr., *Rigel* 13 May, *Vega* 14 Jan. 1953.

Coastal Minesweepers (U.S. AMS Type.

36 New Construction.

ACACIA (ex-AMS 69, 28 Mar. 1953)	**GARDENIA**	**MUGUET**
ACANTHE	**GIROFLEE**	**MYOSOTIS**
ACONIT (ex-AMS 66, 27 Mar. 1953)	**GLAIEUL**	**NARCISSE**
AJONC	**GLYCINE**	**OEILLET**
AZALEA (9 June, 1953)	**JACINTHE**	**PAQUERETTE**
BEGONIA	**LAURIER**	**PAVOT**
BLEUET	**LILAS**	**PERVENCHE**
CAMELIA	**LISERON**	**PIVOINE**
CHRYSANTHEME	**LOBELIA**	**RENONCULE**
COQUELICOT	**MAGNOLIA**	**RESEDA**
CYCLAMEN	**MARGUERITE**	**ROSELYS**
EGLANTINE	**MIMOSA**	**TULIPE**

Displacement :	375 tons.
Dimensions:	138 (p.p.), 144 (*o.a.*), × 27 ×—feet.

Notes.—The U.S.A. agreed in Sept. 1952, to transfer to France in 1953 the above 36 new AMS (of the same general particulars as the *Aldebaran* class, see above). Auxiliary motor minesweepers of wooden construction. New type of vessel constructed throughout of materials with the lowest possible magnetic attraction to attain the greatest possible safety factor when sweeping for magnetic mines. All "Flower" names, some of which had been given to the corvettes under the Free French flag : *Aconit* (which sank two submarines), *Lobelia*, *Mimosa*, *Roselys*, *Glycine* and *Myosotis* perpetuate the names of ex-YMS of the U.S.A. which were mined and sunk in Indo-China.

Coastal Minesweepers—*continued.*

26 ex-American Type.

AUBEPINE. *Added* 1951, *Marius Bar, Toulon.*

AMARANTE (ex-D 301, ex-YMS 169)
ANÉMONE (ex-D 311, ex-YMS 34)
ARMOISE (ex-D 313, ex-YMS 58)
ASPHODÈLE (ex-D 314, ex-YMS 226)
AUBEPINE (exD 315, ex-YMS 28)
BALSAMINE (ex-D 316, ex-YMS 37)
BASILIC (ex-D 317, ex-YMS 13)
BELLADONE (ex-D 318, ex-YMS 78)
CAMPANULE (ex-D 321, ex-YMS 36)
CAPUCINE (ex-D 322, ex-YMS 16)
CLEMATITE (ex-D 323, ex-YMS 62)
DAHLIA (ex-D 325, ex-YMS 82)
DIGITALE (ex-D 326, ex-YMS 83)
GENÈT (ex-D 355, ex-D 272, ex-YMS 208)
GENTIANE (ex-D 327, ex-YMS 20)
GERANIUM (ex-D 331, ex-YMS 55)
HELIOTROPE (ex-D 334, ex-YMS 33)
HORTENSIA (ex-D 33, ex-YMS 27)
JASMINE (ex-D 335, ex-YMS 29)
JONQUILLE (ex-D 336, ex-YMS 64)
MARJOLAINE (ex-D 337, ex-YMS 69)
PERCE-NEIGE (ex-D 351, ex-D 201, ex-YMS 23)
PÉTUNIA (ex-D 355, ex-D 271, ex-YMS 207)
PIMPERNELLE (ex-D 352, ex-D 211, ex-YMS 26)
PRIMEVÈRE (ex-D 353, ex-D 212, ex-YMS 31)
ZINNIA (ex-D 356, ex-D 273, ex-YMS 227)

Displacement	232 tons *standard* (270 tons *full load*)
Dimensions :	134½ × 24½ × 12 feet
Guns :	1—3 inch d.p., 2—20 mm. AA., 2 M.G.
Machinery :	2 sets Diesels. B.H.P. : 1,000 = 15 kts.
Oil fuel :	16 tons

Notes.—Built of wood. *Basilic* launched 13 June, 1942, *Gentiane*, 1 Nov., 1941, *Jasmin*, 10 Apr., 1942. All acquired in 1944, 2 funnels except *Amarante*, *Genêt*, *Petunia* and *Zinnia*, which have single funnel. *Glycine* (ex-D 332, ex-YMS 18) and *Myosotis* (ex-D 338, ex-YMS 15) were sunk by mines in Indo-China, 1949, *Lotus* and *Tiaré* reclassified as patrol vessels 1951, see next page.

Inshore Minesweepers

New Construction

Note.—Four "in-shore" minesweepers of a new type are provided for under the 1953 programme.

Patrol Vessels.

3 New Construction.

P 1 **P 2** **P 3** **P 4** **P 5** **P 6** **P 7** **P 8** **P 9**

Displacement :	325 tons *standard*
Dimensions :	170 (p.p.) × 23 × 6¼ feet
Guns :	2—40 mm. Bofors AA., 2—20 mm. AA.
A/S Weapons :	1 hedgehog, 4 D.C. mortars (and 2 D. C. racks), Asdic
Machinery :	4 Pillstick light diesel engines coupled 2 by 2. B.H.P. : 3,240 = 18·7 kts.
Radius :	2,500 miles at 12 kts., 2,000 miles at 15 kts.

Notes.—Three of nine patrol vessels ordered in France (U.S.A. offshore commano) will be commissioned by French Navy. *P2* and *P6* were ordered for F.C. Mediterranee (Graville), *P1*, *P4*, *P9*, from Dubigeon, Nantes, *P3*, *P7*, A. C. Provence (Port de Bone), *P5*, *P8*, from Normand (Le Havre).

35 " Carabinier " Class.

L'EVEILLE 1953, *Marius Bar*

L'ARDENT (*ex-PC1167*)
CARABINIER (*ex-PC 556*)
CIMETERRE (*ex-PC 1250*)
COUTELAS (*ex-PC 1560*)
DAGUE (*ex-PC 1561*)
DRAGON (*ex-PC 557*)
L'EMPORTE (*ex-PC 480*)
L'EVEILLE (*ex-PC 471*)
FANTASSIN (*ex-PC 621*)
FLAMBERGE (*ex-PC 1086*)
GLAIVE (*ex-PC 1143*)
GOUMIER (*ex-PC 545*)
GRENADIER (*ex-PC 625*)
HUÉ (*ex-PC 797*)
HUSSARD (*ex-PC 1235*)
L'IMPETUEUX (*ex-PC 1139*)
L'INCONSTANT (*ex-PC 1171*)
L'INDISCRET (*ex-PC 474*)
L'INTREPIDE (*ex-PC 1130*)
LANCIER (*ex-PC 1227*)
LANSQUENET (*ex-PC 626*)
LEGIONNAIRE (*ex-PC 1226*)
LUANG-PRABANG (*ex-PC 798*)
MAMELUCK (*ex-PC 551*)
MOUSQUET (*ex-PC 1144*)
PIQUE (*ex-PC 1249*)
PNOM-PENH (*ex-PC 796*)
LERUSE (*ex-PC 472*)
SABRE (*ex-PC 1248*)
SPAHI (*ex-PC 591*)
TIRAILLEUR (*ex-PC 542*)
TRIDENT (*ex-PC 1146*)
VIGILANT (*ex-PC 550*)
VOLONTAIRE (*ex-PC 543*)
VOLTIGEUR (*ex-PC 559*)

Displacement	280 tons (430 tons *full load*)
Dimensions :	170 (*w.l.*), 173¼ (*o.a.*), × 23 × 6½ feet
Guns :	1—3 inch d.p., 1—40 mm. AA., 5—20 mm. AA. (*Ardent* and *Hué*, 3), 6 D.C.T.
Machinery :	Diesel 2 shafts. B.H.P. : 2,880 = 20 kts. (18·5 kts. at *full load*)
Fuel :	60 tons
Complement :	63

Notes.—Steel. *Carabinier* launched 24 Apr., 1943, *Coutelas* 4 Feb., 1944, *Emporte* 25 Oct., 1941, and *Hussard* 3 Apr., 1943. Formerly rated as Escorteurs, but re-rated as Patrouilleurs in 1951. *Ardent*, *Flamberge*, *Glaive*, *Impetueux*, *Inconstant*, *Intrepide*, *Mousquet* and *Trident*, ex-American *PCs*, were transferred by U.S.A. in 1951 and sent to Indo-China. *Hué*, *Luang-Prabang* and *Pnom-Penh* (*ex-PC 796-798*), formerly U.S. Navy submarine chasers, were purchased in 1950 by French Government and fitted out in Seattle for service in French Indo-China. Remainder were acquired from U.S.N. in 1944. *Attentif*, *Cavalier* (*ex-PC 627*), *Franc Tireur*, *Javelot*, *Resolu* discarded 1951. L'Effrónte (*ex-PC 481*) scrapped 1953.

2 ex-American Type.

LOTUS (*ex-D 324, ex-YMS 43*) **TIARÉ** (*ex-D 353, ex-YMS 63*)

Displacement :	232 tons (270 tons *full load*)
Dimensions :	134½ × 24½ × 12 feet
Guns :	1—3 inch, d.p., 2—20 mm. AA., 2 M.G.
Machinery :	Diesels. 2 shafts. B.H.P. : 1,000 = 15 kts.
Oil fuel	16 tons

Notes.—Built of wood. Acquired from United States in 1944. Formerly rated as minesweepers. Re-rated as patrol vessels in 1951 Same type as ex-American minesweepers of " Amarante " class on preceding page. Stationed at Tahiti and Caledonia.

Seaplane Tender Type.

(Rated as *Patrouilleurs*).

CH 21. 1952, *courtesy M. H. Le Masson.*

P 705 (*CH 21*) **P 728** (*CH 12*) *Bénodet*

Displacement :	107 tons (135 tons *full load*)
Dimensions :	121½ × 16½ × 6½ feet
Guns :	1—3 inch, etc. (*P 705* has 1—3 inch, 4—20 mm. AA.)
Machinery :	M.A.N. Diesels. 2 shafts. B.H.P. : 1,100 = 16 kts.

Notes.—Ordered under 1937 Programme. Steel. Built by F. de la Mediterranée and Worms, respectively. Above craft were specially designed for employment as seaplane tenders when required. Both launched 1940. Rated as *Patrouilleurs*.

1 " Fairmile " B Type.

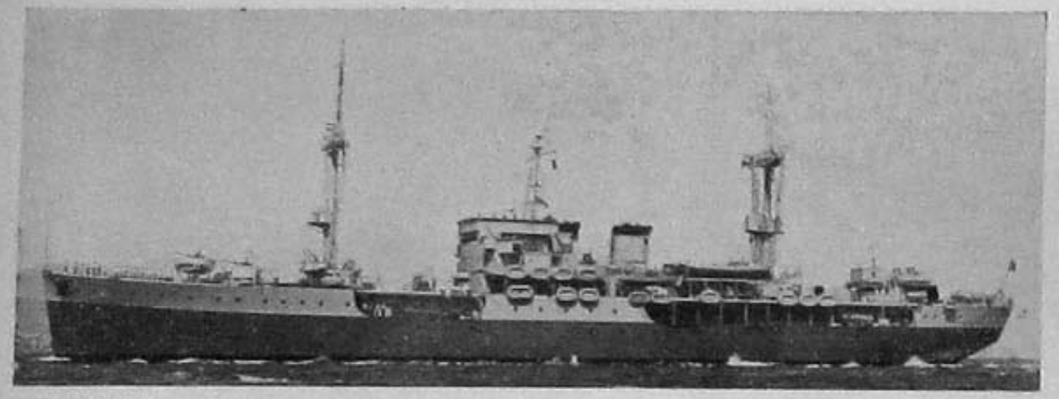
P 779 (*Ved. 104, ex-ML 302*)

Displacement :	82 tons *standard* (130 tons *full load*
Dimensions :	112 × 18 × 9 feet
Guns :	1—47 mm., 1—20 mm. AA., 4 M.G., D.C.
Machinery :	2 Hall Scott motors. B.H.P. : 1,200 = 19 kts.
Complement :	19

Notes.—Former British motor launch transferred in 1943. Sister craft P 775, P 776, P 777 (Ved. 101, 102, 103, ex-ML 244, 271, 266 respectively) were stricken off in 1951. Stationed at Dakar. Rated as *Vedette de Patrouille*.

Fleet Repair Ships.

(Navires Atelier).



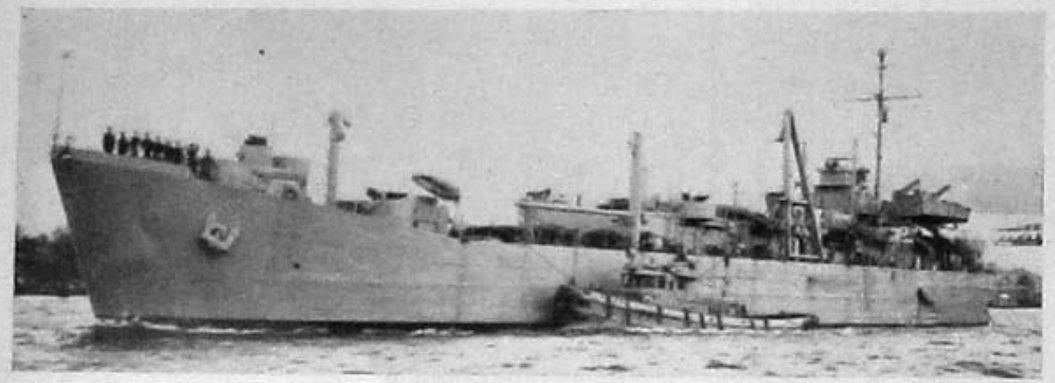
JULES VERNE

1950, *Marius Bar*

JULES VERNE

Builders :	Lorient
Launched :	3 Feb., 1931
Displacement :	4,347 tons (6,340 tons *full load*)
Dimensions :	377½ (pp.), 400½ (o.a.) × 56½ × 19 feet
Guns :	4—3·5 inch AA., 7—40 mm. AA., 10—20 mm. AA.
Machinery :	2 sets Sulzer Diesels. 2 shafts. B.H.P. : 7,000 = 16 kts.
Complement :	296

Note.—Previously served as submarine depot ship.



VULCAIN

1953, *Marius Bar*

VULCAIN *(ex-U.S.S. Agenor, ARL 3, ex-LST 490)*

Launched	1942
Displacement :	1,625 tons (*light*) 4,050 tons (*full load*)
Dimensions :	328 (*o.a.*) × 50 × 14½ (*max.*) feet
Machinery :	2 Diesels. B.H.P. : 1,700 = 10·8 kts.

Notes.—Former United States ocean tank carrier with bow doors. Transferred in 1951 for service in Indo-China.

Submarine Depot Ship.

(Ravitailleur-pour-Sousmarins).

GUSTAVE ZÉDÉ

1953, *Marius Bar*

GUSTAVE ZÉDÉ *(ex-Saar)*

Builders :	Krupp-Germania
Launched :	5 Apr., 1934
Displacement:	2,895 tons
Dimensions :	308 × 44½ × 14 feet
Guns :	3—4·1 inch, 4—40 mm. AA., 8—20 mm. AA.
Machinery :	2 sets Krupp Diesels. 2 shafts. B.H.P. : 3,700 = 16 kts.
Fuel :	336 tons
Radius :	3,400 miles at 11 kts.
Complement :	364

Notes.—Former German submarine school depot ship. Acquired from U.S. Navy in October, 1947. Recommissioned in 1949. Alterations to bridge and foremast 1952 (see photo). Flagship of the G.A.S.M. or Groupe d'action anti-submarine (Anti-submarine Group).

Port Depot Ships.

General Notes.—Former cruisers, etc., now classed as depot ships.

There are the obsolete heavy cruisers *Suffren*, at Toulon, *Duquesne* at Arzew, and *Tourville* at Brest (for reserve midshipmen's training) all used as barracks ; the former aircraft carrier *Béarn*, hulk at Toulon, and the late battleship *Paris*, now floating headquarters of Brest flotillas.

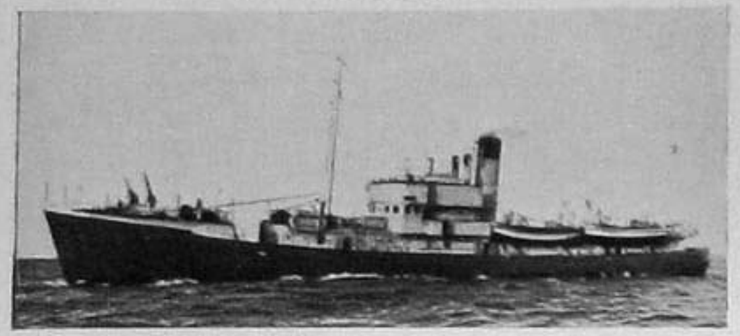
Surveying Vessels.

1 Ex-American Type.

INGENIEUR EN CHEF GIROD (*ex-FS 24, ex-Governor Wright*)

Displacement :	950 tons
Dimensions :	176 × 32½ × 10½ feet
Machinery :	2 General Motors diesels. 1 shaft. B.H.P. : 1,000 = 12 kts.
Complement :	55

7 Ex-German Type.



INGENIEUR-HYDROGRAPHE NICOLAS — 1949, *Official*.

INGENIEUR-HYDROGRAPHE NICOLAS (*ex-Otto Brohan, ex-B 206*)

Builders :	C.N.F., Caen
Launched :	1944
Displacement :	800 tons (1,080 tons *full load*)
Dimensions :	176 × 28½ × 16½ feet
Guns :	2—20 mm. AA.
Machinery :	Triple expansion. 1 shaft. Speed : 10 kts.
Coal :	190 tons
Complement :	68

Notes.—Formerly German. Reconstructed as surveying vessel.

ALIDADE. — 1947, *M. Henri Le Masson.*

ALIDADE (*ex-German M 4621, ex-Van Rozeland*)

Displacement :	700 tons *standard* (995 tons *full load*)
Dimensions :	184½ × 26½ × 16½ feet
Guns :	1—3·5 inch, 2—20 mm.
Machinery	Triple expansion with exhaust turbine. Coal. Speed : 11·5 kts.
Complement :	46

Surveying Vessels—*continued.*

OCTANT — 1947, *M. Henri Le Masson.*

OCTANT (*ex-German M 4626 ex-Ostfriesland*)

Displacement :	800 tons *standard* (1,100 tons *full load*)
Dimensions :	183½ × 26½ × 17 feet
Guns :	1—3·5 inch, 2—20 mm.
Machinery:	Triple expansion with exhaust turbine. Speed : 10 kts.
Coal :	210 tons
Complement :	50

Notes.—*Astrolabe* (ex-B 281, ex-V201, ex-*Zieten*) and *Boutsole* (ex-UJ 1405, ex-B 285) were scrapped in 1953.

SENTINELLE. — 1951, *Skyfotos.*

ESTAFETTE (*ex-B 282, ex-Treff. 6*) **SENTINELLE** (ex-B 284, *ex-Treff. 2*)

Displacement :	500 tons *standard* (654 tons *full load*)
Dimensions :	137 × 26 × 15½ feet
Guns :	2—20 mm.
Machinery :	Dentz motor. B.H.P. : 500 = 12 kts.
Oil fuel :	140 tons

Note.—Both ex-whalers.

General Note for Surveying Vessels.—Usually commissioned for the six months April-November, and reduced to Reserve during other six months of the year.

Trawlers (*Chalutiers*, rated as *Patrouilleurs*).

LA SETOISE — 1953, *Marius Bar.*

L'AJACCIENE (*ex-Mildenhall*) **LA SETOISE** (*ex-Oriental Star*) **LA TOULONNAISE** (*ex-Hampshire*)

Displacement :	590 to 640 tons (900 tons *full load*)
Dimensions :	178½ × 27½ × 16½ feet
Guns :	1—4 inch, 1—40 mm., 5—20 mm. AA., 2 M.G.
Machinery :	I.H.P. 800 = 10 kts.
Coal :	205 tons
Complement :	35

Notes.—*L'Ajaccienne* launched 1936, others 1934. Slight differences in appearance. All acquired from Great Britain early in 1940.

Rhine Patrol Boats.

(Flotilla du Rhin.)

VR 41 — 1953, *M. Henri Le Masson.*

VR 796 (ex-41) **VR 797** (ex-42) **VR 798** (ex-43) **VR 799** (ex-44)

Displacement :	23 tons
Dimensions :	65½ × 11½ × 6½ feet
Guns :	1—20 mm. AA., 1—13·2 mm. Hotchkiss M.G.
Machinery :	2 M.A.N. Diesels. 2 shafts. B.H.P. : 250=18 kts.
Complement :	8

Notes.—Four newly completed vedettes built in 1950-51, two by Rasmussen, Bremse Vegesack, and two by Immenstadt (Lake Constance). The four ex-German craft of these numbers, formerly French Rhine Flotilla, were stricken off.

224R

Patrol Launches.

32 Wooden Type.

(Formerly rated as *Chasseurs de Sousmarins*).

P 696 1953, *Marius Bar.*

P 690	(ex-*CH* 101, ex-*SC* 524)	**P 706**	(ex-*CH* 135, ex-*SC* 651)
P 691	(ex-*CH* 102, ex-*SC* 525)	**P 709**	(ex-*CH* 122, ex-*SC* 534)
P 692	(ex-*CH* 136, ex-*SC* 1030)	**P 711**	(ex-*CH* 125, ex-*SC* 1043)
P 693	(ex-*CH* 104, ex-*SC* 533)	**P 713**	(ex-*CH* 131, ex-*SC* 692)
P 694	(ex-*CH* 121, ex-*SC* 515)	**P 714**	(ex-*CH* 132, ex-*SC*)
P 695	(ex-*CH* 141, ex-*SC* 770)	**P 715**	(ex-*CH* 144, ex-*SC* 655)
P 696	(ex-*CH* 142, ex-*SC* 498)	**P 716**	(ex-*CH* 51, ex-*SC* 1336)
P 697	(ex-*CH* 146, ex-*SC* 979)	**P 717**	(ex-*CH* 52, ex-*SC* 1335)
P 699	(ex-*CH* 62, ex-*SC* 1344)	**P 718**	(ex-*CH* 81, ex-*SC* 516)
P 700	(ex-*CH* 71, ex-*SC* 1337)	**P 720**	(ex-*CH* 83, ex-*SC* 519)
P 701	(ex-*CH* 92, ex-*SC* 697)	**P 722**	ex(-*CH* 91, ex-*SC* 649)
P 702	(ex-*CH* 94, ex-*SC* 977)	**P 723**	(ex-*CH* 93, ex-*SC* 639)
P 703	(ex-*CH* 95, ex-*SC* 508)	**P 724**	(ex-*CH* 96, ex-*SC* 497)
P 704	(ex-*CH* 5, ex-*SC* 1359)		

P 732 (ex-*CG* 3) 1952, *courtesy M. H. Le Masson.*

P 731	(ex-GC 2, ex-SC 1008)	**P 735**	(ex-GC 6, ex-SC 1034)
P 732	(ex-GC 3, ex-SC —)	**P 736**	(ex-GC 7, ex-SC 1020)
P 733	(ex-GC 4, ex-SC 1025)		

Displacement :	95 tons (138 tons *full load*)
Dimensions :	107½ (*w.l.*), 110¾ (*o.a.*) × 17 × 6½ feet
Guns :	1—40 mm. AA., 3—20 mm. AA. (P 731 to 736, 2—20 mm. and 2 M.G. only). Numerous D.C.
Machinery :	2 G.M. Diesels. 2 shafts. B.H.P. : 800 = 15 kts.
Complement :	25

Notes.—Wood. *P* 692 launched 26 Aug. 1942, *P* 718, 11 Oct., 1941, *P* 722, 18 Apr., 1942, *P* 694, 20 Sep., 1942. Acquired from U.S.N. in 1944 except last five, ex-U.S. submarine chasers, transferred from the U.S.A. in 1951 for Indo-China, which are lighter with more streamlined bridge and have something of the appearance of U.S. Coast Guard patrol vessels. Formerly rated as Submarine Chasers, but re-rated Patrol Vessels in 1951. *CH* 116 (ex-*SC* 638) mined and sunk Aug., 21, 1945, *P* 698 (ex-*CH* 61, ex-*SC* 1345) and *P* 730 (ex-*CH* 72, ex-*SC* 1346) discarded 1952. *P* 707 (ex-*CH* 106, ex-*SC* 690), *P* 708 (ex-*CH* 107, ex-*SC* 693), *P* 710, (ex-*CH* 123, ex-*SC* 1029), *P* 712 (ex-*CH* 134, ex-*SC* 666), *P* 719 (ex-*CH* 82, ex-*SC* 517), *P* 721 (ex-*CH* 84, ex-*SC* 529), *P* 725 (ex-*CH* 114, ex-*SC* 526), *P* 726 (ex-*CH* 133, ex-*SC* 695), *P* 727 (ex-*CH* 143, ex-*SC* 535), and *P* 734 (ex-*GC* 5, ex-*SC*) all scrapped 1953.

Seaward Defence Motor Launches.

(*Vedettes de Port*).

24 British Type.

1944, *French Navy, Official.*

VP 750	(ex-*VP* 1, ex-*HDML* 1249)	**VP 762**	(ex-*VP* 42, ex-*HDML* 1457)
VP 751	(ex-*VP* 10, ex-*HDML* 1250)	**VP 763**	(ex-*VP* 71, ex-*HDML* 1377)
VP 752	(ex-*VP* 11, ex-*HDML* 1152)	**VP 764**	(ex *VP* 24, ex-*HDML* 1067)
VP 753	(ex-*VP* 13, ex*HDML* 1142)	**VP 765**	(ex-*VP* 81, exHDML 1432)
VP 754	(ex-*VP* 14, ex-*HDML* 1136)	**VP 766**	(ex-*VP* 9, ex-*HDML* 1127)
VP 755	(ex-*VP* 15, ex-*HDML* 1144)	**VP 767**	(ex-*VP* 16, ex*HDML* 1139)
VP 756	(ex-*VP* 21, ex-*HDML* 1073)	**VP 768**	(ex-*VP* 6, ex-*HDML* 1228)
VP 757	(ex-*VP* 22, ex-*HDML* 1141)	**VP 771**	(ex-*VP* 8, ex-*HDML* 1232)
VP 758	(ex-*VP* 23, ex-*HDML* 1231)	**VP 775**	(ex-*VP* 25, ex-*HDML* 1021)
VP 759	(ex-*VP* 31, ex-*HDML* 1143)	**VP 776**	(ex-*VP* 26, ex-*HDML* 1022)
VP 760	(ex-*VP* 32, ex-*HDML* 1164)	**VP 777**	(ex-*VP* 27, ex-*HDML* 1269)
VP 761	(ex-*VP* 41, ex-*HDML* 1425)	**VP 778**	(ex-*VP* 28, ex-*HDML* 1274)

Displacement :	40 tons *standard* (52 tons *full load*)
Dimensions :	72 (*o.a.*) × 15½ × 4½ (*mean*) feet
Guns :	1—20 mm., 4 M.G. (VP 31, 32, 1—2 pdr., 1—20 mm. AA.)
Machinery :	Diesel. 2 shafts. B.H.P. : 260 = 11 kts.

Notes.—All on loan from Royal Navy. *P* 759, 760 were known during war as *Palmyre* and *Baalbeck*, respectively. *VP* 61 and 63 were sunk during a hurricane, March 14, 1948. *VP* 72 discarded 1951. Most of these boats are in Indo-China. *VP* 769 (ex-*VP* 3, ex-*HDML* 1233) and *VP* 770 (ex-*VP* 12, ex-*HDML* 1225) stricken from the Navy List 1953.

2 American Type.

P 772 (ex-*VP* 51) **P 773** (ex-*VP* 52)

Displacement :	40 tons

Notes.—Ex-ML, U.S. Navy. Stationed in Tahiti.

Air-Sea Rescue Launches.

(*Vedettes de Sauvetage Aero Maritime*).

V 612 (ex-140) **V 615** (ex-147) **V 617** (ex-144) **V 619** (ex-146
V 616 (ex-143)

Displacement :	30 tons
Guns :	6 M.G.
Machinery :	3 shafts. B.H.P. : 1,500 = 27 kts.
Radius :	360 miles at 18 kts.

Notes.—Former British air-sea rescue launches. Launched 1944-45. *V* 613 (ex-141) and *V* 618 (ex-145) discarded 1953.

Motor Torpedo Boats.

VLT 2 1953, *courtesy M. Henri Le Masson.*

VLT 1

VLT 3

Displacement :	94 tons *full load*
Dimensions :	98½ × 19¾ × 6½ feet
Guns :	2—40 mm., 2—20 mm.
Torpedoes :	2—21 inch
Machinery :	6 motors, 2 shafts. B.H.P. : 6,600 = 40 kts.
Complement :	18

Fast Rescue Launches (for Naval Air Service).

V 622. 1946, *courtesy M. Henri Le Masson.*

V 621 (ex-*V* 120, ex-*S* 301) **V 622** (ex-*V* 121, ex-*S* 302)

Displacement :	65 tons
Dimensions :	99¾ × 19 × 5½ feet
Guns :	12 M.G.
Machinery :	B.H.P. : 3,600 = 35 kts.

Notes.—Built at Meulan. German type like two following. *V* 611 (ex-131, ex-S22) discarded 1953.

V 610 (ex-*V* 130, ex-*S* 21) **V 620**

Displacement :	30 tons
Length :	93 feet (*o.a.*)
Guns :	7 M.G.
Machinery :	Diesel. B.H.P. : 2,600 = 39 kts.
Complement :	11

V 780 (ex-*MAS* 543)

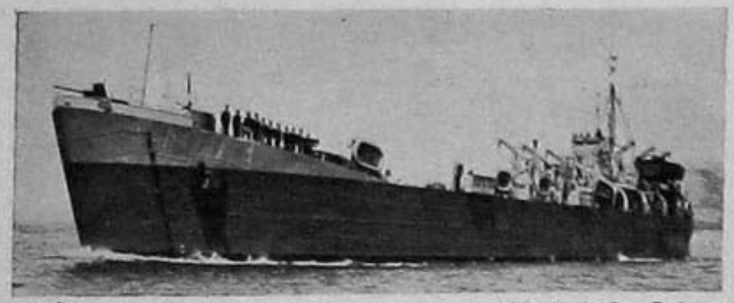
Displacement :	66 tons
Guns :	4—20 mm.
Speed :	34 kts.

Notes.—Italian type. Built in C.R.D.A., Monfalcone, Yards in 1941-1943.

Landing Ships.

(Rated as *Bâtiments de debarquement*).

Note.—The 1949 programme authorised some landing ships of 350 tons.



LAÏTA. 1949, *Marius Bar, Toulon.*

ADOUR (ex-*LST* 860)
CHÉLIFF (ex-*LST* 874)
GOLO (ex-*LST* 973)
LAÏTA (ex-*LST* 177, May 10, 1943)
ODET (ex-*LST* 815)
ORNE (ex-*LST* 508, Nov. 10, 1943)
RANCE (ex-*LST* 223, Aug. 24, 1943)
VIRE (ex-*LST* 347, 1942)

Displacement :	1,625 tons (4,080 tons *full load*)
Dimensions :	316 (*w.l.*), 328 × 50 × 14 (*max.*) feet
Guns :	8—20 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,700 = 11 kts.

Note.—L 9008 (ex-*U.S.S. LST* 973) transferred from U.S.A. to France, Nov. 1951 at San Diego, California. Used as naval transports. *Adour*, seriously damaged, was raised and is now an accommodation ship at Saigon.

LSSL 9035 1952, *courtesy M. H. Le Masson.*

ARBALETE (ex-*LSSL* 9021, ex-1)
ARQUEBUSE (ex-*LSSL* 9022, ex-2)
HALLEBARDE (ex-*LSSL* 9033, ex-3)
JAVELINE (ex-*LSSL* 9024, ex-4)
PERTUISANE (ex-*LSSL* 9025, ex-5)
RAPIERE (ex-*LSSL* 9026, ex-6)

Note.—These six Landing Ships Support (Large) were transferred from U.S.A. in 1951 for service in Indo-China.

LSIL 9030 (ex-715) **LSIL 9031** (ex-818) **LSIL 9032** (ex-1092) **LSIL 9033** (ex-718)

Note.—Stationed in Indo-China. Ex.-U.S. ships ceded to France at Bremerton, Washington, 2 Mar. 1951.

Landing Craft.

LCI 9040 (ex-101) **LCI 9045** (ex-201) **LCI 9048** (ex-260)
LCI 9042 (ex-103) **LCI 9046** (ex-217) **LCI 9049** (ex-263)
LCI 9043 (ex-108) **LCI 9047** (ex-251) **LCI 9050** (ex-508)

Note.—Infantry Landing Craft transferred from the United States under the Mutual Defense Assistance Programme for use in Indo-China. *LCI* 9041 (ex-102) and *LCI* 9044 (ex-109) discarded 1953.

LCH 9055 (ex-*LCH* 377, ex-*LCI* 377)

Note.—In Algeria.

LCG 9059 (ex-LGC 111)

Note.—In Indo-China.

LCT 9060 (ex-1104) **LCT 9067** (ex-1276) **LCT 9081** (ex-718)
LCT 9061 (ex-1126) **LCT 9068** (ex-1311) **LCT 9082** (ex-1127)
LCT 9062 (ex-1139) **LCT 9069** (ex-1313) **LCT 9085** (ex-622)
LCT 9063 (ex-1156) **LCT 9070** (ex-1329) **LCT 9086** (ex-1221)
LCT 9064 (ex-1157) **LCT 9071** (ex-1348) **LCT 9091** (ex-720)
LCT 9065 (ex-1187) **LCT 9072** (ex-7016) **LCT 9092** (ex-799)
LCT 9066 (ex-1257) **LCT 9080** (ex-766) **LCT 9093** (ex-834)

Notes.—LCT 9080 at Brest, LCT 9081, 9082 at Arzew, Algeria, remainder in Indo-China.

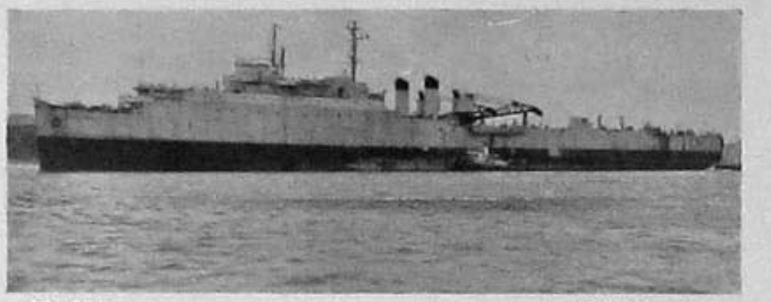
LCT 9083 (ex-*LCT(R)* 4) **LCT 9084** (ex-*LCT(R)* 27)

Note.—Arzew, Algeria.

SAINT PABU

Note.—*LCT* to be used as harbour barge after removal of engines.

Landing Ship Dock.



FOUDRE 1953, *Marius Bar.*

FOUDRE (ex-Greek *Okeanos*, ex-British *Oceanway*, ex-U.S. *LSD* 12)

Displacement :	4,500 tons *standard* (7,930 tons *full load*)
Dimensions :	457½ (*o.a.*) × 72 × 18 feet
Machinery :	Turbine 2 shafts. H.P. : 7,400 = 17 kts.

Notes.—Transferred by U.S. to Great Britain in 1944. Acquired by Greece from whom purchased by U.S. in 1952 and transferred to France under MDAP.

Netlayers.

(Rated as *Gabares*).

5 New Construction AN Type.

G1	G2	G3	G4	G5
Displacement :	400 tons			
Dimensions :	146½ × 33½ × 10½ feet			
Guns :	1—40 mm. Bofors, 4—20 mm. AA.			
Machinery :	2 4-stroke diesels. B.H.P. : 800 = 12 kts.			

Boom Defence Vessels.

(Rated as *Gabares.*)

TARENTULE. 1946, *J. W. Kennedy, Esq.*

ARAIGNÉE (ex-*Hackberry*, ex-*Maple*)
SCORPION (ex-*Yew*) **TARENTULE** (ex-*Pepperwood*, ex-*Walnut*)

Displacement :	560 tons (850 tons *full load*)
Dimensions :	146 (*w.l.*), 163 (*o.a.*) × 30½ × 11½ feet
Guns :	1—3 inch AA., some M.G.
Machinery :	Diesel-electric. H.P. : 800 = 12 kts.
Complement :	39

Note.—Launched 6 Mar., Sep., 25 Aug., 1941, respectively.

AGISSANTE **GIRAFE** **PERSÉVÉRANTE** **PUISSANTE**
FIDÈLE **PATIENTE** **PERSISTANTE** **VICTORIEUSE**

Polar Research Ship.

COMMANDANT CHARCOT (ex-*AN* 48, U.S.S. *Lancewood*, ex-*Ironwood*)

Builders	Pollock-Stockton S.B. Co.
Displacement :	1,058 tons (1,140 tons *full load*)
Dimensions :	194½ (*o.a.*) × 37½ × 11½ (*max.*) feet
Machinery :	Diesel-electric. S.H.P : 1,200 = 14 kts.

Notes.—Built 1942-43. Wooden hull. Took French expedition to Adélie Land, Antarctic, early 1950. Now in reserve.

Diving Tender (*Batiment de Récherches Sous Marines*).

INGÉNIEUR ÉLIE MONNIER (ex-German trawler *Albatros*)

Displacement :	280 tons *standard* (350 tons *full load*
Dimensions :	111½ × 24 × 10 feet
Machinery :	Diesel. 1 shaft. Speed : 12 kts.
Range :	1,500 miles
Complement :	19

Notes.—Fitted for ocean research.

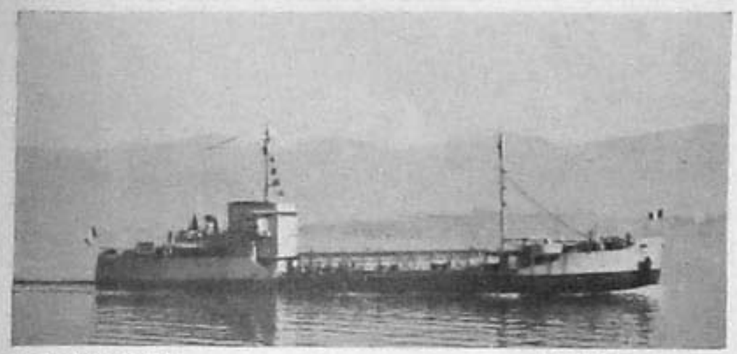
223R

Oilers (*Transports Petroliers*).

CHARENTE. 1946, *French Navy, Official.*

	LA BAISE	LA CHARENTE	LA MAYENNE
Displacement		4,220 tons (12,100 tons *deadweight*)	
Dimensions :		433 × 52½ × 20½ feet	
Guns :		1—3·9 inch, 14—20 mm. AA.	
Machinery :		Parsons geared turbines. 2 shafts. S.H.P. : 5,200 = 15 kts.	
Boilers :		2 Penhoët	
Oil fuel :		1,100 tons	
Radius :		10,000 miles at 13 kts.	

Notes.—Built by Ch. Worms, Le Trait, under 1938 Programme. Rated as *Ravitailleurs d'Escadre*. *Baise* launched 1945, *Charente* in 1940.



LAC TONLE-SAP. *Added, 1949, Emery.*

LAC CHAMBON (*ex-Anticline*) **LAC TONLE-SAP** (*ex-Pumper*)
LAC TCHAD (*ex-Syncline*)

Displacement :	800 tons (2,670 tons *full load*)
Guns :	3—20 mm. AA.
Machinery :	Diesel. B.H.P. : 1,150 = 11 kts.

Notes.—Ex-American fuel oil barges, Acquired Dec. 1944-March 1945. *Loc Noir* scrapped 951 *Loc Pavin* scrapped 1953.

Oilers—*continued.*

L'AULNE (ex-U.S. YOG 680)

Displacement :	450 tons
Capacity :	700 tons deadweight

Note.—Ex-U.S. oiler ceded to France 2 Mar., 1950. Rated as petrol transport.

ELORN (VAR similar). *Added* 1944, *Marius Bar.*

ELORN **VAR**

Notes.—Both built by Deutsche Werft A.G., Hamburg, on War Reparations account. Launched 1930 and 1931 respectively. Particulars similar to *Le Mékong*, below.

LE MÉKONG. *Added* 1944, *Marius Bar.*

LE MÉKONG

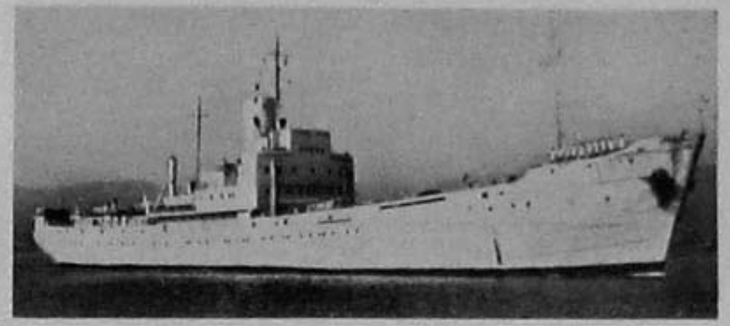
Builders :	Penhoet, St. Nazaire
Launched	31 Aug., 1928
Displacement :	5,482 tons *standard* (15,150 tons *full load*)
Dimensions :	436½ (*pp.*), 456 (*o.a.*) × 61½ × 26 (*mean*) feet
Guns :	2—3·9 inch, 2—1 pdr.
Machinery:	2 sets Burmeister & Wain Diesel engines. B.H.P. 4,850 = 13·5 kts. (6,000 on trials)
Complement :	81 peace, 104 war

Notes.—Capacity of tanks : 33,900 cubic metres. Deadweight : 9,600 tons, of which oil fuel absorbs 9,000 ; distilled water, 500 ; lubricating oil, 100.

GARONNE (ex-Italian *Torvisio*)

Built :	Castellammare
Launched :	11 Apr., 1927
Displacement :	10,915 tons
Dimensions :	372½ × 59 × 22¾ feet
Guns :	4—4·7 inch, 2—3 inch AA.
Machinery :	Parsons geared turbines. S.H.P. : 2,600 = 10 kts.
Boilers :	3 cylindrical, oil-fired
Cargo capacity :	8,000 tons

Transports.



1947 *courtesy M. Henri Le Masson.*

ILE D'OLERON (*ex-München, ex-Mur*

Launched :	1939
Displacement :	3,300 tons
Dimensions :	350 × 50 × — feet
Machinery :	M.A.N. Diesel. B.H.P. : 3,500 = 14·5 kts.
Complement :	110

Notes.— Now an accommodation vessel at Brest (reserve midshipmen's training establishment with ex-cruiser *Duquesne*).

HERAULT (*ex-Tirso, ex-*Italian *Sprugola*)

Builders :	C. Tirreno, Riva Trigoso
Launched :	1937
Displacement :	1,086 tons
Dimensions :	174 × 33 × 11½ feet
Guns :	4 M.G.
Machinery :	Fiat Diesels. B.H.P. : 600 = 9·5 kts.

Notes.—Transferred from Italy. Fitted for minelaying.

ALPHÉE (ex-yacht)

Displacement :	900 tons (1,280 tons *full load*)
Machinery :	2 M.A.N. Diesels. 2 shafts. B.H.P. : 1,700 = 14 kts.

GIBOULÉE **HANAP** (*ex-Stjordels Fjord*)

Displacement :	575 ons (1,369 tons *full load*)
Dimensions :	184 × 28½ × 13¾ feet
Machinery :	Sulzer Diesels. B.H.P. : 1,000 = 11·5 kts.
Complement :	27

FALLERON (ex-German *Welle*) **TER** (ex-German *Heinrich*)

Displacement :	150 tons (247 tons *full load*)
Machinery :	Diesels. Speed : 7 kts.

GAPEAU. 1952, *Marius Bar.*

GAPEAU (*ex-*German *B 284, ex-V 625, ex-Johan Schultz*)
MOLÈNE (*ex-*German *B 262, ex-V 620, ex-Köln*)

Displacement:	300 tons
Machinery :	Deutz Diesels. B.H.P. : 500 = 9 kts.

CAP FERRAT

Displacement :	300 tons
Machinery :	Reciprocating. 1 shaft. H.P. 300

Transports (For Local Service.)

(Rated as Patrol Craft).

P 674 LES MADELEINES (ex-B 264) **P 675 RACHGOUN** (ex-B 253)
P 671 TRÉBERON (ex-B 254)

Displacement : 120 tons
Dimensions : 82 × 20 × 9 feet
Machinery : Diesel. B.H.P. : 120 = 8·5 kts.

Note.—Former German danlayers used as small personnel transports for local service.

Water Carriers and Coastal Tankers.

SAHEL
Displacement : 1,230 tons *full load*
Speed : 12 kts.

Notes.—Completed Aug. 1951 by Chantiers Naval de Caen. Deadweight 600 tons.

CASCADE ex-Italian *Anapo*) **SOURCE** (ex-Italian *Bisagno*)
Built : Ceruta-Volpi
Launched : 1933
Displacement : 182 tons
Machinery : S.M. Diesel. B.H.P. : 180 = 8 kts.

AIGUADE **CASAMANCE** **FRAICHE** **OASIS**
ARROYO **CATARACTE** **GOBELET** **ONDEE**
AVERSE **DELUGE** **JOUVENCE** **RUISSEAU**
BRUINE **FONTAINE** **MIRAGE** **TORRENT**
ZAGHOUAN

Armoured River Barges.

TONNERRE (ex-*Foudre*)

Note.—Armoured river barge stationed in Indo-China.

M.F.V.s

MFV 601 (ex-1009) **MFV 603** (ex-1116)

Note.—MFVs 602 (ex-1042), 604 (ex-1121), 605 (ex-1137) and 606 (ex-1169) were condemned in June 1952.

Training Ships (*Voiliers-École.*)

NOTRE DAME D'ETEL

Note.—Attached to the School of Manoeuvres.

LA BELLE-POULE **L'ÉTOILE**
Displacement 227 tons
Dimensions : 128 (o.a.) × 23½ × 11½ feet
Machinery : Sulzer Diesel. B.H.P. : 120 = 6 kts.

Notes.—Built by Chantiers de Normandie (Fécamp), 1932. Accommodation for 3 officers, 30 cadets, 5 petty officers, 12 seamen. Attached to the Navy School.

MUTIN

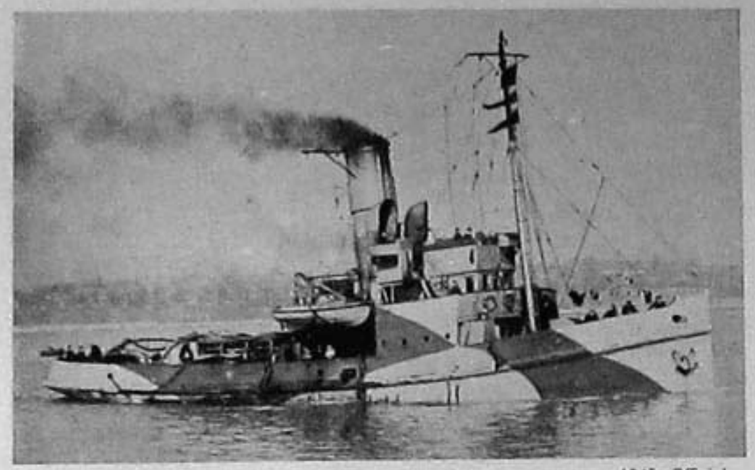
Note.—Attached to the School of Pilotage.

ZELÉE

Fleet Tugs.

BELIER **PACHYDERME**
Displacement : 1,115 tons
Speed : 12 kts.
Oil fuel : 180 tons
Radius : 3,000 miles

BUFFLE
Builders : A. & C. de Bretagne
Laid down : 1936
Launched : 4 May, 1939
Displacement : 1,180 tons
Dimensions : 167½ × 33 × — feet
Machinery : 2 sets triple expansion. I.H.P. : 2,000 = 12 kts.
Complement : 32



1943, *Official.*

ACTIF **CÉPÉT** **COTENTIN** **OBSTINÉ**
APPLIQUÉ **CHAMPION** **ENTÊTE** **UTILE**
Displacement : 600 to 682 tons *full load*
Dimensions : 114¾ × 27½ × — feet
Machinery : Triple expansion. I.H.P. : 1,000 = 10 to 11 kts.

Notes.—All laid down 1937-38, *Actif* by Ch. de la Loire, Nantes, *Cépét* and *Cotentin* by Ch. Dubigeon, Nantes, others by F. & C. de la Gironde, Bordeaux.

FORT
Launched 1933
Displacement 610 tons
Machinery : I.H.P. : 1,100 = 10 kts.

INFATIGABLE (ex-*Polangen*) **IMPLACABLE** (ex-*Fohn II*)
Displacement : 540 tons
Machinery : I.H.P. : 1,200 and 1,600 respectively

VALEUREUX (ex-*ATA*)
Launched : 1930
Displacement : 662 tons *full load*
Machinery : I.H.P. : 1,000 = 10 kts.

Note.—Of similar type to *Actif* class, above.

IMBATTABLE (ex-*Nesserland*) **INTRAITABLE** (ex-*Nordergrunde*)
Displacement 690 tons
Machinery : I.H.P. : 1,000 = 10 kts.

Fleet Tugs—*continued.*

MAMMOUTH
Displacement : 620 tons
Machinery : I.H.P. : 1,800 = 10 kts.

Note.—Launched : 1918. *Hippopotame* and *Mastodonte* scrapped, 1952.

ELEPHANT (ex-*Bär*)
Displacement 1,180 tons *full load*
Machinery : I.H.P. : 1,800 = 12 kts

HUELGOAT (ex-*Tegeler Platte*)
Displacement : 690 tons
Machinery : I.H.P. : 1,000 = 10 kts.

SAMSON (ex-German *Suder Hever*)
Displacement : 690 tons
Machinery : I.H.P. : 1,000 = 11 kts.

SÉRIEUX (ex-Italian *Nereo*)
Displacement : 340 tons *full load*
Machinery : I.H.P. : 900 = 11 kts.

General Note.—Most of the above have reciprocating engines.

RHINOCÉROS 1953, *Marius Bar.*

RHINOCÉROS (ex-American ATA 226)
Displacement : 800 tons
Machinery : Diesels. B.H.P. : 1,800 = 12 kts.

COOLIE (ex-YTB 459, ex-*Edenshaw*)
Launched : 1943
Displacement : 300 tons
Machinery : Diesel. B.H.P. : 1,020 = 14 kts.

MALABAR (ex-YTB 458, ex-*Eveo*)
Displacement : 300 tons
Machinery : Diesels. B.H.P. : 1,020 = 15 kts.

Note.—Transferred from U.S. Navy, 1944.

TENACE (ex-*Hermes*)
Displacement : 400 tons
Machinery : Diesels. B.H.P. : 1,600 = 10 kts.

General Note.—There are 30 other named tugs.

222R

GERMANY (WEST)

Patrol Boats.

3 S-Boote Type.

S 1 **S 2** **S 3**

Displacement :	110 tons
Dimensions :	115 × 16½ × 6 feet
Guns :	2—20 mm. AA., 2 M.G.
Machinery :	3 Diesel Motors. B.H.P. : 7,500 = 38 kts.
Radius :	600 miles
Complement :	19

Notes.—Built by Lürssen, Vegesack, 1951-53.

4 P Type.

P 1. 1953, *courtesy Herr Alexander Bredt.*

P 2. 1953, *courtesy Herr Alexander Bredt.*

P 1 **P 2** **P 3** **P 4**

Displacement :	45 tons (60 tons *full load*)
Dimensions :	83 (*p.p.*), 95 (*o.a.*) × 16 × 5 feet
Guns :	2—20 mm. AA., 2 M.G.
Machinery :	2 Diesel Motors. B.H.P. : 2,000 = 25 kts.
Complement :	16

Notes.—Built 1951-52. Similar to U.S. Coast Guard 83-ft. type.

6 "W" Type.

W 7 **W 8** **W 9** **W 10** **W 11** **W 12**

Displacement :	*circa* 200 tons
Dimensions :	118 × 22 × 11 feet
Guns :	1—20 mm. AA.
Machinery :	1 Fairbanks-Morse Diesel Motor. B.H.P. : 450 (W 7-11) ; 1 National Diesel Motor. B.H.P. : 500 (W 12) = 11 kts.
Complement :	18

Notes.—Fishing cutters formerly employed as coastal minesweepers in the German Navy and laid up in several German ports under Allied control until returned to the German Government.

Patrol Boats—*continued.*

W 13-16. 1953, *courtesy Herr Alexander Bredt.*

W 1 **W 13** **W 15** **W 17**
W 2 **W 14** **W 16** **W 18**
W 3 **W 19**

Displacement :	112 tons
Dimensions :	78½ × 22 × 9 feet
Guns :	1—20 mm. AA., 2 M.G.
Machinery :	1 Diesel Motor. B.H.P. : 150 = 9 kts.
Radius :	1,200 miles
Complement :	16

Notes. KFK (Kreigsfischkutter), type picket boats (wachboote), see notes at bottom of Column 1.

Minesweepers.

M 201 (*ex-M 294*) **M 202** (*ex-M 278, ex-TS 4*) **M 204** (*ex-M 460*)
M 203 (*ex-M 388, ex-TS 7*) **M 205** (*ex-M 441*)

Displacement :	551 tons (784 tons *full load*)
Dimensions :	203½ × 28 × 8½ feet
Guns :	1—20 mm. AA.
Machinery :	2 shafts. H.P. : 2,150 = 16·7 kts.
Boilers :	2
Complement :	76

M 206 (*ex-M 611, ex-Wangerooge*)

Displacement :	600 tons (813 tons *full load*)
Dimensions :	223 × 29½ × 7½ feet
Guns :	1—20 mm. AA.
Machinery :	2 shafts. H.P. : 2,600 = 17·3 kts.
Boilers :	2
Complement :	107

Coastal Minesweepers.

R 132 **R 135** **R 138** **R 144**
R 133 **R 136** **R 140** **R 146**
R 134 **R 137** **R 142** **R 147**

Displacement :	155 tons
Dimensions :	135 × 19 × 5½ feet
Guns :	1—20 mm. AA.
Machinery :	Diesel. B.H.P. : 2,200 = 19 kts.

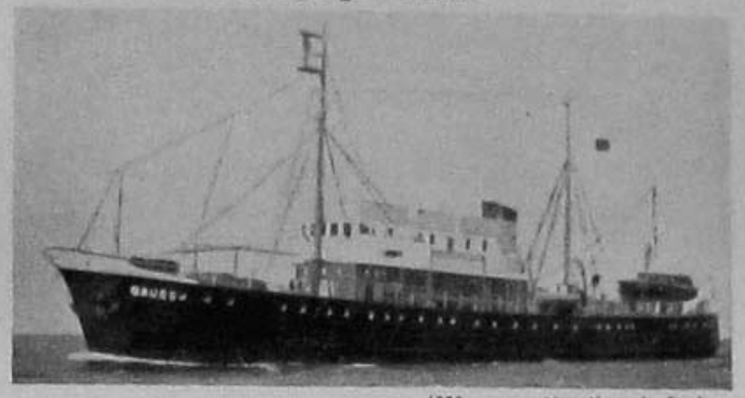
Transports.

2 "Isles" Type.

Displacement :	560 tons (770 tons *full load*)
Dimensions :	164 (*o.a.*) × 27½ × 14 feet
Machinery :	Triple expansion. 1 shaft. IH.P. : 850 = 12 kts.
Boilers :	1 Cylindrical
Fuel :	183 tons coal

Note.—Former British "Isles" type minesweepers (trawlers).

Surveying Vessels.



1953, *courtesy Herr Alexander Bredt.*

GAUSS

Measurement :	846 tons *gross*
Speed :	12 kts.
Complement :	40

HOOGE **RUDEN**

Displacement :	169 tons
Speed :	10 kts.
Complement :	13

ATAIR **RUNGHOLT** **WEGA**

Displacement :	110 tons.
Speed :	8 kts.
Complement :	12

Fishery Protection Vessels.

MEERKATZE

Measurement :	673 tons gross
Dimensions :	187 × 28½ × 15½ feet
Machinery :	Diesel Motor. B.H.P. : 1,000 = 12 kts.
Complement :	26

1953, *courtesy Herr Alexander Bredt.*

FRITHJOF

Measurement :	242 tons gross
Dimensions :	121½ × 23 × 13 feet
Machinery :	1 shaft. I.H.P. : 400 = 10 kts.

Training Ships.

NORDWIND

Notes.—Ketch, ex-Kreigsfischkutter. Sail area: 2037½ sq. ft.

PASSAT **PELLWORM** **PUDDEFJORD**

GERMANY (EAST)

Escort Vessel.

DORSCH

Displacement : 2,000 tons (*approx.*)

Note.—Reported launched 1952, but existence uncertain.

Patrol Vessels.

(Minelayers).

FÜRSTENBURG	**PRENSLAU**
Displacement :	1,200 tons
Guns :	2—3 inch, 4—37 mm. AA., 4—20 mm. AA.

Note.—Under conversion.

Gunboat.

(Anti-Aircraft Ship).

Ex-*UJ 113*

Displacement : 1,400 tons
Guns : 1—4·1 inch, 2—3·5 inch, 20—20 mm. AA.

Note.—Details not confirmed.

River Gunboat.

Displacement : 1,000 tons

Note.—Existence uncertain.

Torpedo Boats.

New Construction

Note.—Twelve torpedo boats reported to be included in new programme.

Minesweepers.

New Construction.

Note.—One new minesweeper reported to be under construction.

M 35 Type.

Displacement 700 tons (900 tons *full load*)
Dimensions : 229½ × 27½ × 7½ feet
Guns : 2—4·1 inch, 1—37 mm. AA., 8—20 mm. AA.
Machinery : Triple expansion. 2 shafts. I.H.P. : 3,500 = 18·3 kts.
Boilers : 2 Wagner
Fuel : 125 tons oil
Radius : 2,000 miles at 16 kts.
Complement : 100

Notes.—1st Minesweeping Flotilla of the former German Navy delivered to the Russian Navy as reparations at the end of the Second World War. Reported handed over to the East German Government to provide the nucleus of a People's Government Navy.

M 40 Type.

Displacement : 551 tons (784 tons *full load*)
Dimensions : 203½ × 273 × 8½ feet
Guns : 1—4·1 inch, 1—37 mm. AA., 10—20 mm. AA.
Machinery : Triple expansion. 2 shafts. I.H.P. : 2,150 = 16·7 kts.
Boilers : 2
Fuel : 142 tons coal
Radius : 2,400 miles at 10 kts.
Complement : 80

Notes.—Former German coal-burning minesweepers awarded to Russian Navy as war reparations, but returned to East Germany at end of 1951 (see above).

Patrol Boat.

Coastal Type.

Displacement: 400 tons
Guns : 2—3·5 inch AA., 1—45 mm. AA., 20—20 mm. AA.

Note.—Existence reported, but doubtful.

Coastal Minesweepers.

13 Motor Minesweeping Boat Type.

Note.—Thirteen reported to have been launched in 1951.

6 Inshore Type.

Displacement: 120 tons
Guns : 4—20 mm.

Motor Torpedo Boats.

New Construction.

Note.—Some 24 motor torpedo boats are reported to be in the new construction programme.

20 Long Type.

Displacement: 70 tons

Note.—Twenty of these boats reported but not confirmed.

12 Fast Type.

Note.—Reported to be of PT type.

Motor Launches.

10 R-boat Type.

Displacement: 100 to 125 tons
Speed : 20 kts.

Note.—Reported to be of minesweeping boat type. Built 1943.

20 Picket Type.

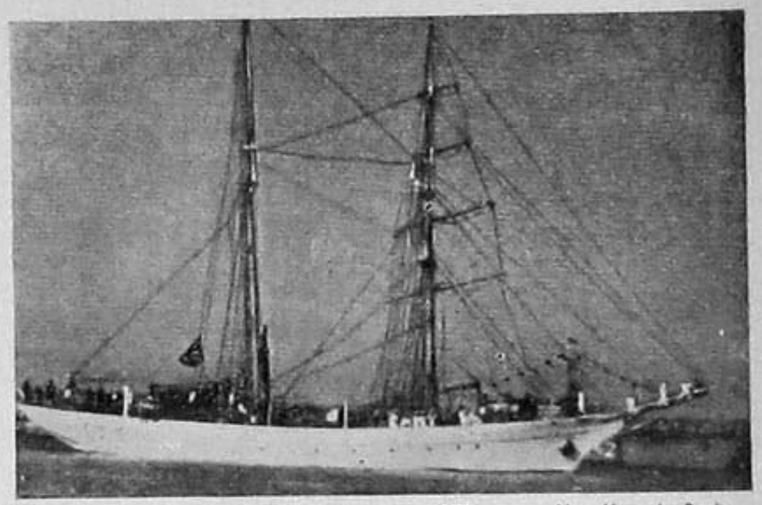
Displacement : 50 tons
Dimensions : 88½ × 13½ × 5½ feet
Speed : 25 kts.

Note.—Reported planned for coastguard and minelaying duties.

Surveying Vessels.

Note.—One or two reported.

Training Ship.



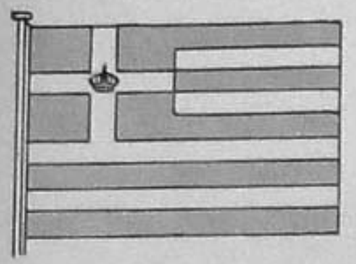
WILHELM PIECK. 1953, *courtesy Herr Alexander Bredt.*

WILHELM PIECK

Note.—Two-masted schooner employed as a school ship.

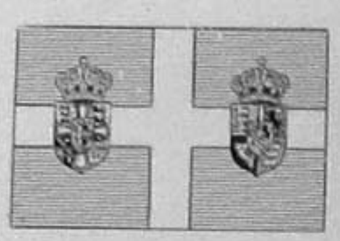
ROYAL HELLENIC NAVY

Flags.

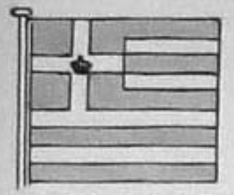


ENSIGN

KING'S STANDARD

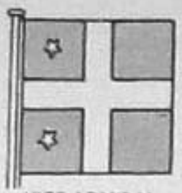


QUEEN'S STANDARD

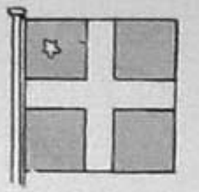


MINISTER OF MARINE

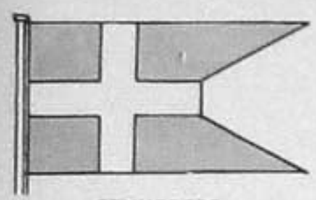
JACK



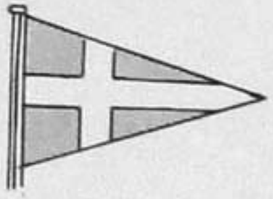
VICE-ADMIRAL



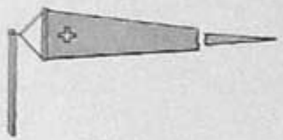
REAR-ADMIRAL



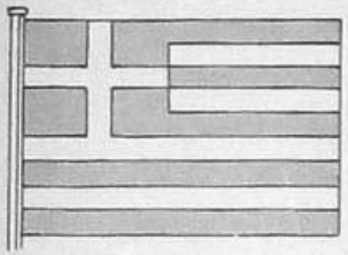
COMMODORE



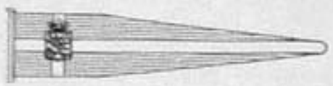
CAPTAIN (D)



PENDANT



MERCANTILE



KING'S PENDANT.

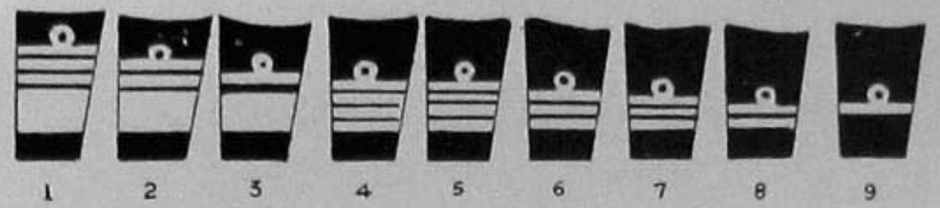
NAVY BLUE

YELLOW

RED

Note.—The Admiral's Pendant has been withdrawn.

Uniforms.



1) Navarkhos. *Admiral.*
(2) Andinavarkhos. *Vice-Admiral.*
(3) Yponavarkhos. *Rear-Admiral.*
(4) Ploiarkhos. *Captain.*
(5) Andiploiarkhos. *Commander.*
(6) Plotarkhis. *Lieutenant-Commander* (with brass hat).
(7) Ypoploiarkhos. *Lieutenant.*
(8) Anthipoploiarkhos. *Junior-Lieut*
(9) Simæophoros. *Sub-Lieut.*

Note.—Rank of Admiral of the Fleet, with thick band and 4 stripes, is held only by the King.

Other branches (all with curl) have colours between stripes as follows :

Engineers :	Dark violet velvet.
Constructors :	Black velvet.
Electricians :	Light violet velvet.
Surgeons :	Scarlet cloth.
Officers of Judicial Department :	Violet cloth.
Supply Officers :	White cloth.
Pharmacists :	Dark green velvet.
Research Chemists :	Light green velvet.

Administration.

Minister for National Defence: P. Kanellopoulos, M.P.
Under Secretary of State for National Defence : Lieut.-General (Retd.) S. Demaratos, M.P.
Chief of General Naval Staff : Vice-Admiral P. Lappas.

Naval Attaché, London : Captain A. Athanassiou, R.H.N.

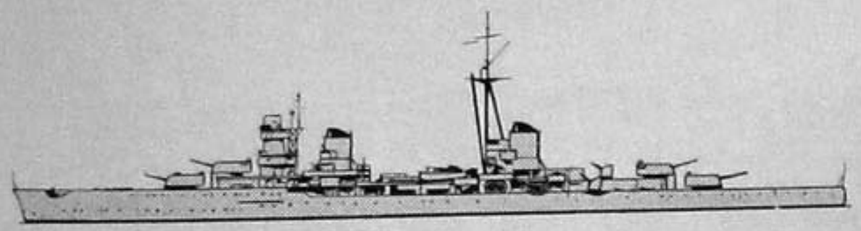
Personnel.

About 11,500 (conscript, 18 months or enlistment).

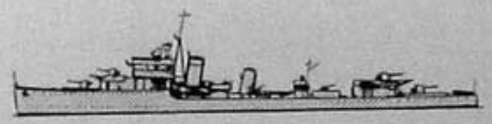
Mercantile Marine.

Lloyd's Register appendix, 1953 :
372 vessels of 1,274,446 tons gross.

* Scale 150 ft. = 1 inch



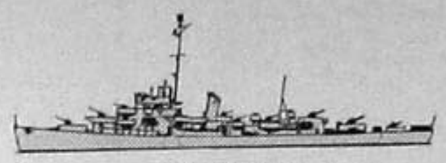
ELLI.*



NAVARINON.*

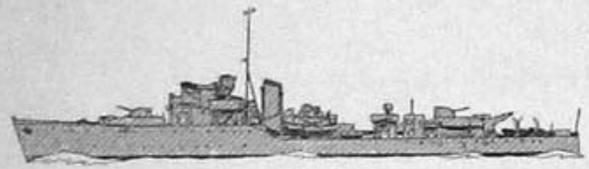
ANTIPLOIARKHOS LASKOS.

DOXA, NIKI.*



PANTHER.*

AFROESSA *Class.*



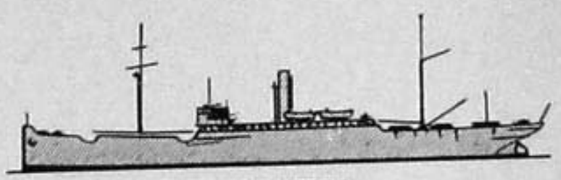
ADRIAS *Class.*

APOSTOLIS.*

HERMES.

THEMISTOKLES *Class.*

POLEMISTIS *Class.**



HEPHAISTOS.

220R

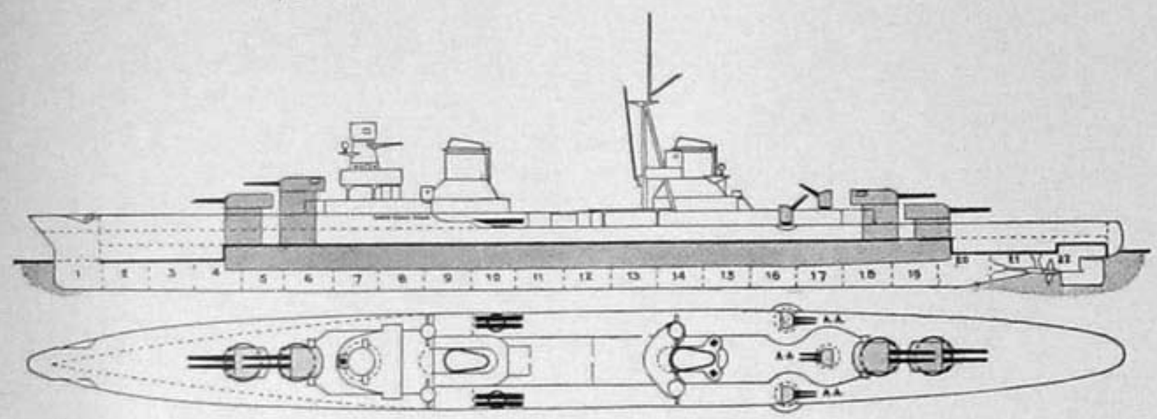
Cruiser.

1 Ex-Italian Type.

1952, *R.H.N. Official.*

ELLI (*ex Eugenio di Savoia*)

Builders :	Ansaldo
Laid down :	Jan., 1932
Launched :	16 Mar., 1935
Completed :	Jan., 1936
Displacement :	7,283 tons, designed : 8,856 tons, actual (10,660 tons *full load*)
Dimensions :	Length : 592 (*w.l.*), 610½ (*o.a.*) feet. Beam : 57½ feet. Draught : 16½ feet (*mean*)
Guns :	8—6 inch, 53 cal., 6—3·9 inch, 47 cal. AA., 8—37 mm. AA., 12—20 mm. AA., 2 M.G., 2 D.C.T.
Torpedo tubes :	6—21 inch (tripled)
Armour :	4"-1½" Vert. side, 1½" Deck, 4" Turrets, 3" Barbettes, 4" C.T.
Machinery :	Belluzzo geared turbines, 2 shafts. S.H.P. : 110,000 = 36·5 kts.
Boilers :	6, of 3-drum type
Oil fuel :	1,731 tons
Complement	551



Note to Plan.—Torpedo tubes are tripled, not paired, as shown.

Notes.—Ex-Italian. This ship was assigned to Greece by the Italian Peacy Treaty, turned over to Greece in July 1950, and was refitted by Cantieri Navali de Taranto before being delivered on 30 June, 1951. She is an enlarged edition of Italian *Montecuccoli*. Reported to be very lightly constructed. Equipped for minelaying and can carry 66 to 112 mines.

Destroyers.

2 Ex-U.S. DD Type.

DOXA.

Added, 1952, *R.H.N., Official.*

DOXA (*ex-U.S.S. Ludlow*) **NIKI** (*ex-U.S.S. Eberle*)

Displacement :	1,630 tons *standard* (2,450 tons *full load*)
Dimensions :	348½ (*o.a.*) × 36 × 18 (*max.*) feet
Guns :	4—5 inch, 38 cal., 12—40 mm., (2 quadruple, 2 twin) 6—20 mm. AA. (single)
Torpedo tubes :	Removed
Machinery :	General Electric geared turbines. 2 shafts. S.H.P. : 50,000 = 34·5 kts.
Boilers :	4 Babcock & Wilcox
Complement :	250 (*war*), 188 peace.

Note.—Taken over from U.S.A. 18 April, 1951. Formerly DD 438 and DD 430 respectively. Names mean "Glory" and "Victory."

Gunnery Notes.—The twelve 40 mm. guns are disposed in six twin mountings, two between the funnels and four abreast the mainmast.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Doxa	Bath Iron Works Corpn.	18 Dec., 1939	11 Nov., 1940	5 Mar., 1941
Niki		12 Apr., 1939	14 Sep., 1940	4 Dec., 1940

1 Ex-British Type.

1953, *R.H.N., Official.*

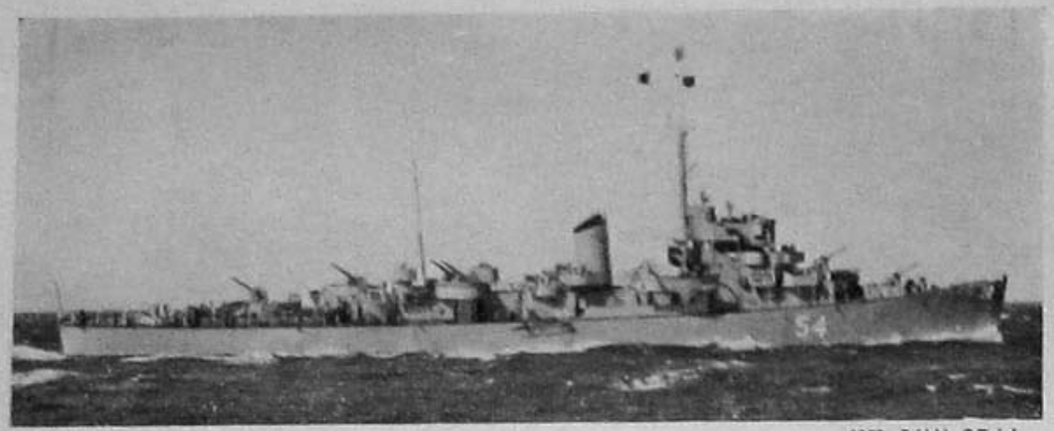
NAVARINON (*ex-H.M.S. Echo*)

Builders :	Denny
Launched :	16 Feb., 1934
Displacement :	1375 tons (2,020 tons *full load*)
Dimensions :	318½ (*pp.*), 329 (*o.a.*) × 33½ × 8½ feet (*mean*)
Guns :	4—4·7 inch, 1—3 inch, AA., 2—40 mm. AA., 2—20 mm. AA.
Tubes :	4—21 inch (in quadruple mounting)
Machinery :	Parsons geared turbines. 2 Shafts. S.H.P. : 36,000 = 31 kts.
Boilers :	3, of 3-drum type, 300 lb. working pressure
Oil fuel :	410 tons
Complement	145

Notes.—On loan from Great Britain. *Salamis* (ex-H.M.S. *Boreas*) which had also been on loan was returned to the Royal Navy Sep., 1951.

Frigates (*Escort Destroyers*).

4 Ex-U.S. DE Type.



PANTHER. 1952, *R.H.N. Official.*

AETOS. 1952, *A. & J. Pavia.*

AETOS (*ex-U.S.S. Slater*)
IERAX (*ex-U.S.S. Ebert*)
LEON (*ex-U.S.S. Eldridge*)
PANTHER (*ex-U.S.S. Garfield Thomas*)

Displacement :	1,240 tons *standard* (1,900 tons *full load*)
Dimensions :	306 (*o.a.*) × 36½ × 12 (*max.*) feet
Guns :	3—3 inch, 50 cal. d.p., 6—40 mm., (3 twin) 18—20 mm. AA. (9 twin)
Torpedo tubes :	Removed
A/S weapons :	D.C.T.
Machinery :	Diesel-electric. 2 shafts. B.H.P. : 6,000 = 20 kts.
Complement :	220 (*war*)

Notes.—Transferred from U.S.A. in 1951 under the Mutual Defense Assistance Program. Formerly DE 766, DE 768, DE 173 and DE 193, respectively. Meanings of names are Eagle, Falcon, Lion and Panther. *Aetos* and *Ierax* transferred March 15, 1951, *Leon* and *Panther* January 15, 1951. Named after late destroyer flotilla bearing these names.

Name	*Builders*	*Launched*	*Completed*
Aetos	Tampa S. B. Co.	13 Feb., 1944	1 May, 1944
Lerax	Tampa S.B. Co.	1944	12 Jul., 1944
Leon	Federal S.B. & D.D. Co.	1943	27 Aug., 1943
Panther	Federal S.B. & D.D. Co.	12 Dec., 1943	24 Jan., 1944

Frigates (*Escort Destroyers*).

8 Ex-British "Hunt" Types.

KANARIS. 1953, *R.H.N. Official.*

ADRIAS. 1950, *R.H.N., Official.*

2 *Swan Hunter*
MIAOULIS (*ex-H.M.S. Modbury*, April 13, 1942)
PINDOS (*ex-Bolebroke*, Nov. 5, 1941)
1 *Vickers-Armstrongs* (*Tyne*)
KANARIS (*ex-Hatherleigh*, Dec. 18, 1941)
1 *Vickers-Armstrongs* (*Barrow*)
HASTINGS (*ex-Catterick*, Nov. 22, 1941)
1 *Yarrow*
ADRIAS (*ex-Tanatside*, April 30, 1942)

Displacement :	1,050 tons (1,545 tons *full load*)
Dimensions :	280 × 31½ × 7¾ feet (*mean*)
Guns :	4—4 inch, 1—4-barrelled 2-pdr. pompom, 3 (*Adrias* 2)—20 mm. AA.
Tubes :	2—21 inch.
Machinery :	Parsons geared turbines. S.H.P. : 19,000 = 26 kts.
Boilers :	2, of 3-drum type
Oil fuel :	265 tons
Complement :	168

Notes.—All above 5 vessels, officially classed as escort destroyers, belong to modified "Hunt" Type III, on loan from Great Britain. Another escort destroyer of this type, *Adrias* (ex-*Border*), was scrapped owing to heavy damage received when a mine blew away her forecastle on Oct. 22, 1943. *Hastings* is named after a retired British naval officer in Greek service who during the War of Independence destroyed a much superior Turkish squadron at Salonica, Sept. 30, 1827. *Kanarias* and *Miaoulis* are names of the two principal Greek flag officers at that time. The latter is fitted as Leader. Launch dates above.

219R

Frigates (*Escort Destroyers*)—*continued.*

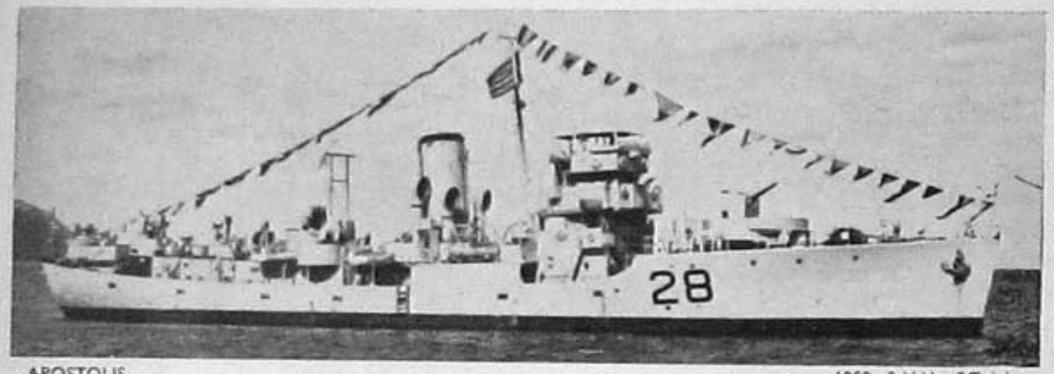
THEMISTOKLES. 1953, *R.H.N., Official.*

AEGEON (*ex-Louderdale*, Aug. 5 1941) **CRETE** (*ex-Hursley*, July 25 1941) **THEMISTOKLES** (*ex-Bramham*, Jan. 29, 1942,)

Displacement :	1,050 tons (1,545 tons *full load*)
Dimensions :	280 × 31½ × 7¾ feet (*mean*)
Guns:	6—4 inch, 1—4-barrelled multiple pompom, 2—20 mm. AA.
Machinery:	Parsons geared turbines. S.H.P. : 19,000 = 25 kts.
Boilers :	2, of 3-drum type
Oil fuel :	280 tons
Complement :	168

Notes.—All above 3 vessels, officially classed as escort destroyers, belong to modified "Hunt" Type II on loan from Great Britain. Built by Thornycroft, Swan Hunter, and Stephen, respectively. Launch dates above. *Aegeon* has torpedo tubes.

Frigates (*Corvettes*)



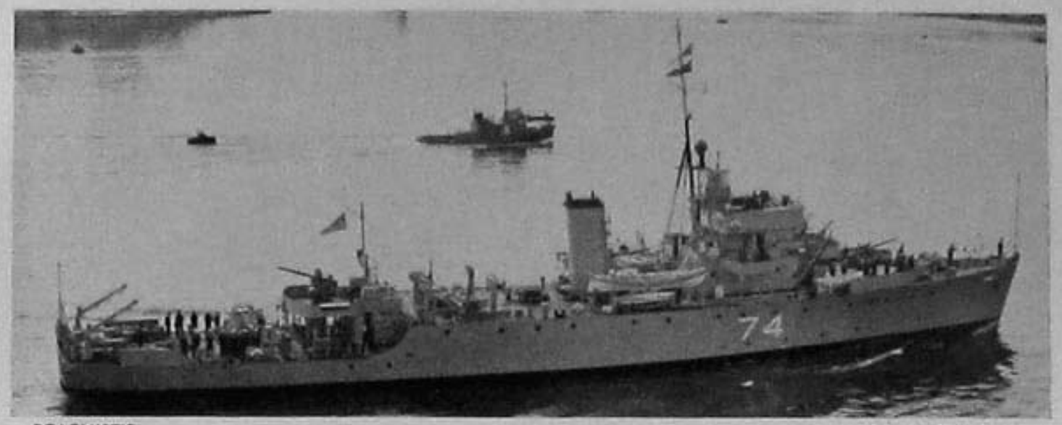
APOSTOLIS. 1950, *R.H.N., Official.*

APOSTOLIS (*ex-Hyocinth*, Aug. 19, 1940) **TOMBAZIS** (*ex-Tamarisk*, July 28, 1941)

Displacement :	1,060 tons (1,250 tons *full load*)
Dimensions :	190 (*pp.*), 205 (*o.a.*) × 32 × 14½ feet
Guns :	1—4 inch AA., (1—3 inch in *Apostolis*), 1—2 pdr., 2—20 mm.
Machinery :	Triple expansion. I.H.P. : 2,750 = 16 kts.
Boilers :	2 S.E.
Complement :	79/85

Notes.—Both on loan from Royal Navy since 1942-43. Small armament varies. *Apostolis* is one of the "Flower" class corvettes which were never brought home after going to the Mediterranean in 1940, and consequently she never had the forecastle extended aft, nor was rearmed. *Tombazis* is of modified "Flower" type. Launch dates above. Built by Harland & Wolff and Fleming & Ferguson respectively.

Frigates (*Corvettes*)—*continued.*



POLEMISTIS. 1951, *A. & J. Pavia*

ARMATOLOS (*ex-Aries*, Sept. 19, 1942) **NAVAMACHOS** (*ex-Lightfoot*, Nov. 14, 1942)
MACHITIS (*ex-Postillion*, Mar. 18, 1943) **POLEMISTIS** (*ex-Gozo*, Jan. 27, 1943)
PYRPOLITIS (*ex-Arcturus*, Aug. 31, 1942)

Displacement :	1,030 tons, 1,325 tons *full load*
Dimensions :	235 (*o.a.*) × 35½ × 11½ (*max.*) feet
Guns :	2—3 inch (U.S. Mk. 21), 4—20 mm. AA. (U.S.), 2 Colt-Browning M.G. (except *Machitis*)
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,000 = 16·5 kts.
Boilers :	2 of 3-drum type
Complement :	85

Notes.—Formerly escort minesweepers of the "Algerine" class in the Royal Navy. Acquired from the Executive Committee of Surplus Allied Material. Officially classed as corvettes. Launch dates above. Armament of *Machitis* has been removed and she is now used as a training ship. All built by Redfern Construction Co., except *Armatolos*, by Toronto Shipyard.

Submarines.

PIPINOS. 1950, *R.H.N., Official.*

2 *Vickers-Armstrongs* (*Barrow*) 2 *Vickers-Armstrong* (*Tyne*)
ARGONAFTIS (*ex-Virulent*, May 23, 1944) **DELPHIN** (*ex-Vengeful*, July 20, 1944)
PIPINOS (*ex-Veldt*, *ex-P 71*, July19, 1943) **TRIAINA** (*ex-Volatile*, June 20, 1944)

Displacement :	545 tons *standard*, 658 tons *surface*, 740 tons *submerged*
Dimensions :	205 × 16 × 12¾ feet
Guns :	1—3 inch, 3 M.G.
Tubes :	4—21 inch (bow)
Machinery :	B.H.P. : 800 = 13 kts. *surface*, H.P. : 760 = 9 kts., *submerged*
Oil fuel :	56 tons
Complement :	31

Notes.—All on loan from Great Britain since 1943-46. This "V" type is a modification of the "U" design .Launch dates above

Patrol Vessels (*Gunboats*).

ANTIPLOIARKHOS LASKOS. *R.H.N., Official.*

ANTIPLOIARKHOS LASKOS (*ex-PGM 16, ex-PC 1148*)
ANTIPLOIARKHOS PEZOPOULOS (*ex-PGM 21, ex-PC 1552*)
PLOIARKHOS MELETOPOULOS (*ex-PGM 22, ex-PC 1553*)
PLOTARKHIS ARSLANOGLOU (*ex-PGM 25, ex-PC 1556*)
PLOTARKHIS BLESSAS (*ex-PGM 28, ex-PC 1559*)
PLOTARKHIS CHANTZIKONSTANDIS (*ex-PGM 29, ex-PC 1565*)

Displacement :	280 tons
Dimensions :	170 (*w.l.*), 173½ (*o.a.*) × 23 × 7½ feet
Guns :	1–3 inch, 2–40 mm. AA., 6—20 mm. AA.
Machinery :	2 sets G.M. 2 stroke Diesels. 2 Shafts. B.H.P. : 3,600 = 19 kts.
Oil fuel :	60 tons

Notes.—Al launched 1943-44. Presented from U.S. Navy, Aug. 1947. Rated as gunboats.

1952, *R.H.N. Official.*

VASSILEFS GEORGIOS II (*ex-PC 622*)

Launched :	1942.
Displacement :	280 tons
Dimensions :	170 (*w.l.*), 173½ (*o.a.*) × 23 × 7½ feet
Guns :	1—3 inch d.p., 1—40 mm. AA., 5—20 mm.
A/S weapons :	4 D.C.T.
Machinery :	2 sets G.M. 2-stroke Diesels. 2 shafts. B.H.P.: 3,600= 19 kts.
Oil fuel :	60 tons
Complement :	65

Notes.—Transferred from U.S. Navy under Lease-Lend Act, June, 1944. Rated as gunboat.

Motor Minesweepers.

AFROESSA. 1951, *R.H.N., Official.*

AFROESSA (*ex-BYMS 2185*)
ITHAKI (*ex-BYMS 2240*)
KALYMNOS (*ex-BYMS 2033*)
KARTERIA (*ex-BYMS 2065*)
KEFALINIA (*ex-BYMS 2171*)
KERKYRA (*ex-BYMS 2172*)
LEFKAS (*ex-BYMS 2068*)
LEROS (*ex-BYMS 2186*)
PARALOS (*ex-BYMS 2066*)
PATMOS (*ex-BYMS 2229*)
PAXI (*ex-BYMS 2056*)
SALAMINIA (*ex-BYMS 2067*)
SIMI (*ex-BYMS 2190*)
ZAKYNTHOS (*ex-BYMS 2209*)

Displacement :	223 tons
Dimensions :	136 × 24½ × 6 feet
Guns :	1—3 inch, 2—20 mm. AA., 4 M.G., 2 D.C.T.
Machinery :	Diesel. B.H.P. : 1,000 = 12 kts.
Complement :	33

Notes.—Wood. All the names are conventional and are not mentioned in signals or correspondence. Known by numbers.

Motor Launches.

ELEPHTHERON. 1953, *A. & J. Pavia.*

DOXATON (*ex-ML 307*)
DRAMA (*ex-ML 341*)
ELEPHTHERON (*ex-Kalini, ex-ML 478*)
HALKI (*ex-ML 578*)
KALAMBAKA (*ex-ML 483*)
KARPENISSI (*ex-ML 867*)
NISSIROS (*ex-ML 864*)
TSATALTZA (*ex-ML 861*)

Displacement :	65 tons
Dimensions :	112 × 18 × 9 feet
Guns :	1—40 mm. AA., 2—20 mm. AA., 4 M.G.
Machinery :	2 Hall Scott motors. B.H.P. : 1,200 = 18 kts.

Notes.—*Fairmile* "B" *type*. All on loan from Great Britain. *Nissiros* used as Royal Barge.

Seaward Defence Motor Launches.

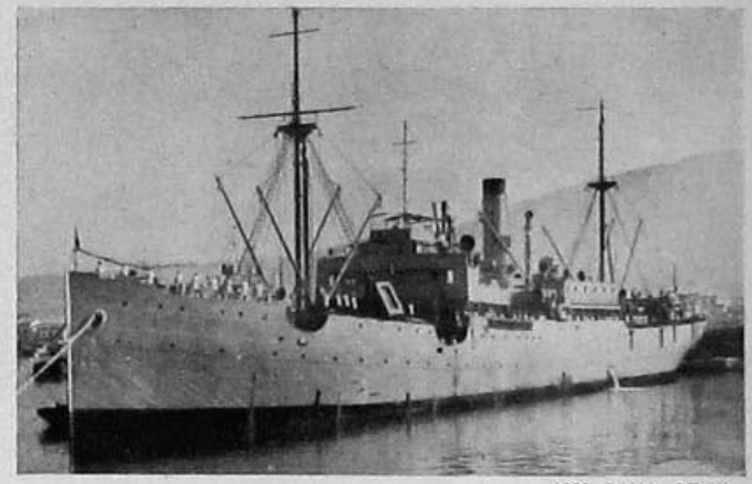
BIZANI. 1951, *R.H.N., Official.*

BIZANI (*ex-HDML 1221*)
DAVLIA (*ex-HDML 1032*)
DISTRATON (*ex-HDML 1292*)
FARSALA (*ex-HDML 1252*)
KARIA (*ex-HDML 1307*)
KASTRAKI (*ex-HDML 1375*)
KLISSOURA (*ex-HDML 1149*)
PORTARIA (*ex-HDML 1051*)

Displacement :	46 tons
Dimensions :	72 (*o.a.*) × 15½ × 4½ feet (*mean*)
Guns :	1—40 mm., 1—20 mm. AA.
Machinery :	Diesel. B.H.P. : 300 = 10 kts.

Note.—All on loan from Great Britain.

Repair Ship.



1950, *R.H.N., Official.*

HEPHAISTOS (*ex-Khios, ex-Marie Reppel*)

Displacement :	3,800 tons
Dimensions :	360½ × 50 × 23 feet
Guns :	2—3 inch AA., 4—20 mm.
Machinery :	I.H.P. : 2,500 = 11·5 kts.

Notes.—Former German cargo ship. Built at Rostock. Launched 1920. Converted into a Repair Ship by Messrs. Palmers, Jarrow-on-Tyne, 1925. Fitted with up-to-date workshops and plant. *Hephaistos* was the patron god of the metal workers.

Tank Landing Ships.

STRYMON. 1951, *R.H.N., Official.*

ACHELOOS (*ex-LST 3503*)
ALFIOS (*ex-LST 3020*)
ALIAKMON (*ex-LST 3002*)
AXIOS (*ex-LST 3007*)
PINIOS (*ex-LST 3506*)
STRYMON (*ex-LST 3502*)

Displacement :	2,256 tons (4,980 tons *full load*)
Dimensions :	330 (*w.l.*), 347 (*o.a.*) × 55 × 14¼ (*max.*) feet
Guns :	10—20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 13 kts.
Oil fuel :	1,950 tons

Notes.—All launched 1943. On loan from Great Britain.

CHIOS. 1952, *R.H.N., Official.*

CHIOS (*ex-LST 35*)
LIMNOS (*ex-LST 36*)
LESVOS (*ex-LST 322*)
SAMOS (*ex-LST 33*)

Displacement :	1,625 tons
Dimensions :	316 (w.l.), 328 (o.a.) × 50 × 14 feet (*max.*)
Guns :	1—3 inch, 6—20 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,700 = 11 kts.
Oil fuel :	1,000 tons
Complement :	119

Notes.—All launched 1943. Acquired from U.S. Navy, 1943, on Lend-Lease terms.

Tank Landing Craft.

AMORGOS (*ex-LCT 1301*)
ANAFI (*ex-LCT 1293*)
KANDANOS (*ex-LCT 587*)
KYTHIRA (*ex-LCT 1198*)
MILOS (*ex-LCT 1300*)
SERIFOS (*ex-LCT 1227*)
SOFADES (*ex-LCT 594*)
THIRA (*ex-LCT 1297*)

Displacement : 320 to 400 tons.

Note.—All launched 1942. *Kemeno* (*ex-LCT 625*, *Malakassi* (*ex-LCT 619*) *Palaiochori* (*ex-LCT 620*) and *Vraghni* (*ex-LCT 607*) returned to the British Government 1953.

Assault Landing Craft.

LCA 1123	**LCA 1525**	**LCA 1725**	**LCA 1775**	**LCA 1886**
LCA 1352	**LCA 1618**	**LCA 1726**	**LCA 1818**	
LCA 1488	**LCA 1629**	**LCA 1746**	**LCA 1854**	

Note.—On loan from Great Britain.

Depot Ship.

1953, *R.H.N. Official.*

HERMES (*ex-Product, ex-Port Jackson*)

Displacement :	550 tons
Dimensions :	133 × 27½ × 11 feet
Machinery :	Triple expansion
Speed :	11 kts.

Note.—Depot ship for minesweepers. Launched 1941. On loan from Great Britain.

Oilers.

1949, *Official.*

ARGO (*ex-Solna, ex-Granlund, ex-Corbis, ex-War Ranee*)

Builders :	Swan Hunter
Launched :	1918
Displacement :	11,715 tons (8,350 tons gross)
Dimensions :	400 × 52½ × 25½ feet
Machinery :	Triple expansion. I.H.P. : 3,000 = 10 kts.
Boilers :	3 cylindrical
Oil fuel :	2,200 tons
Capacity :	7,310 tons

ZEUS (*ex-YOG 98*)

Launched :	1944
Capacity :	900 tons
Dimensions :	165 × 35 × — feet

PROMETHEUS

Launched :	1939
Capacity :	520 tons

KRONOS (*ex-Islay, ex-Dresden*)

Displacement :	311 tons
Capacity :	110 tons

ORION (*ex-U.S. tanker Y 126*)

Capacity : 700 tons

KHALKI (*ex-Hemingstedt*)

Capacity : 550 tons

XANTHI (*ex-Empire Tigoon, ex-Steingrund*)

Capacity : 1,000 tons

POSEIDON (*ex-Empire Faun*)

Capacity 850 tons

Note.—On loan.

Salvage Vessel.

SOTIR. 1952, *A. & J. Pavio.*

SOTIR (*ex-Salventure*)

Displacement :	1,440 tons (1,700 tons *full load*)
Dimensions :	216 (*o.a.*) × 37½ × 13 (*max.*) feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,500 = 12 kts.
Oil fuel :	310 tons.
Complement :	60

Note.—On loan from Great Britain.

Transports.

ANHIALOS (*ex-FT 28, ex-APC 65*)
DISTOMON (*ex-FT 15, ex-APC 66*)
ELASSON (*ex-FT 12, ex-APC 67*)
KALAVRITA (*ex-FT 13, ex-APC 71*)
LEHOVON (*ex-FT 24, ex-APC 73*)
VELESTINON (*ex-FT 11, ex-APC 75*)

Displacement :	229 tons
Guns :	2—20 mm. AA.

Note.—All built 1943.

Lighthouse Tenders.

ST. LYKOUDIS (*ex-Chania*)
Displacement : 1,020 tons
SERRAI (*ex-Anna Raeder*)
Displacement : 725 tons
SKYROS

Water Carriers.

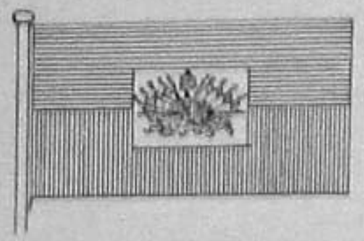
KALIRROE **PANTHER** **STYMPHALIA**
KASTALIA **PIGHI**
Capacity : About 130 tons

Fleet Tugs.

AIAS
ANTAIOS (*ex-Busy*)
ATLAS (*ex-F 5*)
CYCLOPS (*ex-F 10*)
ENGELADOS (*ex-Confident*)
HERAKLIS
KENTAVROS
PERSEUS (*ex-ST 772*)
SAMSON (*ex-F 16*)
THESEUS (*ex-ST 539*)

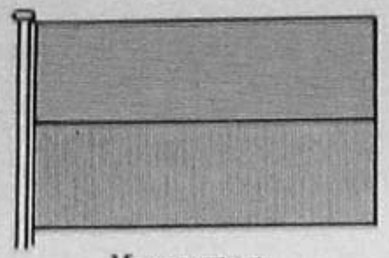
HAITI

Flags.



Red
White
Blue

ENSIGN.



MERCANTILE.

Personnel.

About 300 officers and men.

Patrol Vessels.

16 AOUT 1946 (*ex-SC 453, Aug. 1941*)
AMIRAL KILLICK (*ex-SC 1348, Sept. 1943*)
TOUSSAINT L'OUVERTURE (*ex-SC 1064, April 1943*)

Displacement :	110 tons (138 tons *full load*)
Dimensions :	110½ × 18½ × 6½ feet
Guns :	1—40 mm., 2—30 mm.
Machinery :	Diesels. 2 shafts. B.H.P. : 1,000 = 15 kts.

Notes.—Pendant Nos. GC 2, GC 4 and GC 3, respectively. Submarine chasers of the SC type acquired during 1947 from the U.S. Navy. Launch dates above.

Nos. 1, 2, 3, 4, 5, 6

Displacement :	45 tons
Dimensions :	82 × 16 × 4½ feet
Guns :	1—20 mm.
Speed :	20·5 kts.

Notes.—Patrol craft of picket-boat type acquired from the U.S. Coast Guard. All launched 1942.

SAVANNAH

Displacement :	47 tons
Dimensions :	83 × 16 × 4½ feet
Machinery :	Diesels. 2 shafts. B.H.P. : 200 = 9 kts.

Note.—Pendant No. GC 1.

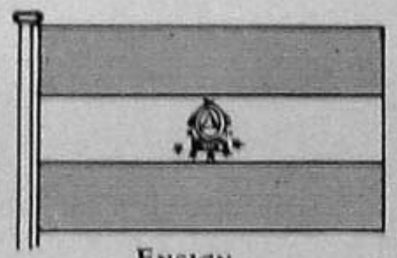
Presidential Yacht.

SANS SOUCI (*ex-Captain James Taylor*)

Displacement :	161 tons
Machinery :	Diesels. 2 shafts. B.H.P. : 300 = 10 kts.

HONDURAS

Flags.



ENSIGN.

MERCANTILE.

Mercantile Marine.

Lloyd's Register appendix, 1953 :
145 vessels of 468,495 tons *gross*.

Frigate.

Photo wanted

GUAYAS

Launched :	July 31, 1943
Displacement :	1,400 tons
Dimensions :	304 × 37½ × 12 feet
Guns :	3—3 inch d.p., 10—40 and 20 mm. AA. (this original armament may have been modified)
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 18 kts.
Boilers :	2, of 3-drum type

Notes.—Another frigate has been reported adapted for mercantile use.

HUNGARY

River Patrol Vessels.

GYÖR (*ex-Compo*)

Built :	Ganz-Danubius Yard, Budapest
Launched	1918
Displacement :	140 tons
Dimensions :	149½ × 19½ × 3½ feet (*mean*)
Guns :	2—70 mm., 2 M.G., 1 S.L.
Machinery :	A.E.G. turbines. Tunnel screws. S.H.P. : 1,200 = 15 kts.
Boilers :	2 Yarrow
Oil fuel :	18 tons
Complement :	44

Note.—Refitted 1924-26.

SOPRON (*ex-Austro-Hungarian Stöhr*)

Built :	Ganz-Danubius Yard, Budapest
Launched	1918
Displacement :	140 tons
Dimensions :	141 × 19½ × 3½ feet
Guns :	2—70 mm., 2 M.G.
Machinery :	Diesels. B.H.P. : 1,600 = 18 kts.
Boilers :	2 Yarrow
Oil fuel :	30 tons
Complement :	40

Notes.—Refitted 1928 and re-engined with M.A.N. Diesels. *Debrecen*, of above class, was sunk in action with Russian tanks at Tokol, Nov. 25, 1944, and *Baja* has also been lost. The patrol vessel, *Godollo*, appears also no longer to exist.

KECSKEMÉT (*ex-Viso*) **SZEGED** (*ex-Bregalnica, ex-Welz*)

Displacement :	133 tons
Dimensions :	144½ × 16½ × 3½ (*mean*) feet
Guns :	2—70 mm., 2 M.G., 1 S.L.
Machinery :	A.E.G. turbines. Tunnel screws. S.H.P. : 1,100 = 15 kts.
Boilers :	2 Yarrow
Oil fuel :	18 tons
Complement :	44

Notes.—Formerly Austro-Hungarian. Both built at Ganz-Danubius Yard, Budapest. Launched 1915 and 1916, respectively. *Szeged* refitted 1921, *Kecskemét*, 1923. These ships reported to be sold for mercantile use.

Motor Launches.

HONVED	HUSZAR	TÜZER
Displacement :	17 tons	
Guns :	2 M.G.	
Speed :	9 kts.	

Note.—All three launched 1916.

Depot Ship.

CSOBÁNC

Built :	Ganz-Danubius Yard, Budapest
Launched :	1928
Displacement :	305 tons
Dimensions :	132 × 18 × 4½ feet
Machinery :	2 Diesels. Tunnel screws. B.H.P. : 180 = 8 kts.
Oil fuel :	8 tons
Complement :	18

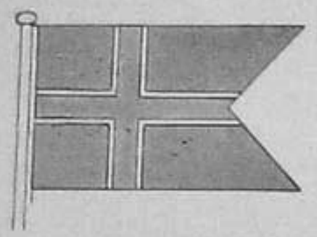
Training Ship.

BADACSONY

Displacement	225 tons
Machinery :	H.P. : 400 = 10·5 kts.

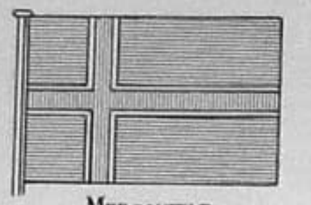
ICELAND

Flags.



RED
WHITE
BLUE

NATIONAL FLAG

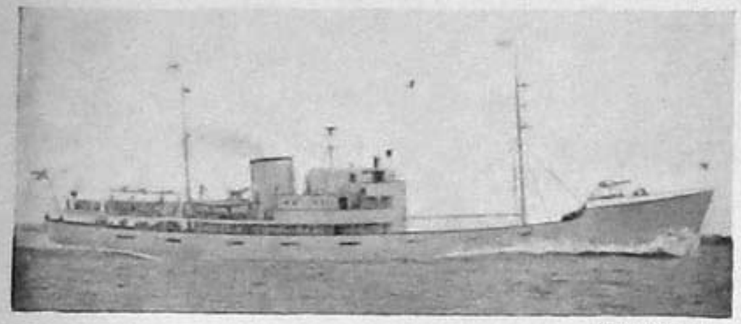


MERCANTILE.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 141 vessels of 83,265 tons *gross*.

Patrol Vessel.



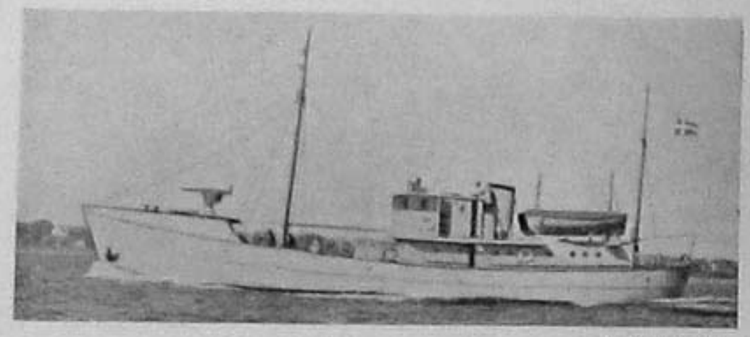
1953, *Official*.

THOR

Built :	Aalborg, Denmark
Launched :	1951
Measurement :	693 tons *gross*
Length :	183½ (*pp*), 206 (*o.a.*) feet
Guns :	1—57 mm., 2—47 mm.
Machinery :	2 Crossley Diesel motors. B.H.P.: 3,200
Speed :	18 kts.
Complement :	28

Note.—Completed and commissioned for service late 1951. Rated as coastal inspection and salvage vessel.

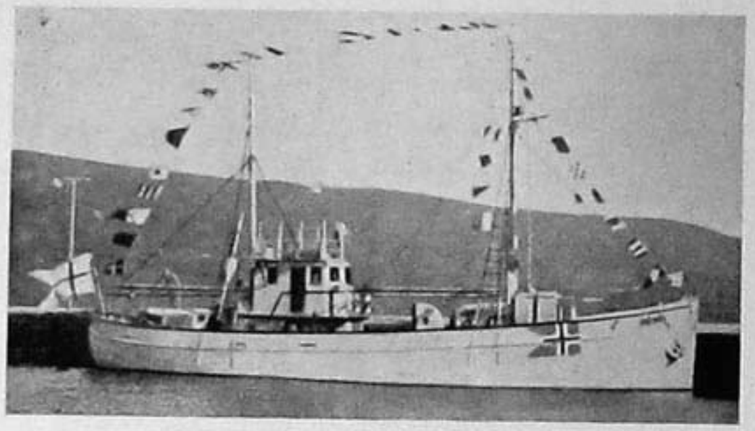
Fishery Protection Vessels.



1953, *Official*.

MARÍA JÚLÍA

Built :	Frederikssund, Denmark
Launched :	1950
Measurement :	138 tons *gross*
Length :	90½ feet
Guns :	1—47 mm.
Machinery :	Petters Diesel motor. B.H.P. : 470
Speed :	12 kts.
Complement:	12



1953, *Official*.

ODINN

Launched :	1938
Displacement :	72 tons
Guns :	1—47 mm.
Machinery :	Petters Diesel Motor. B.H.P .: 425 = 11 kts.
Complement :	11

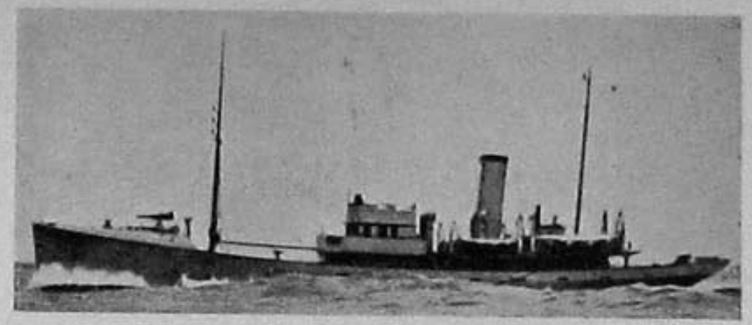
Note.—Ketch with auxiliary motor.

Fishery Protection Vessels—*continued*.

SÆBJORG

Built :	Frederikssund, Denmark
Launched :	1937
Measurement :	98 tons *gross*
Length :	80½ feet
Guns :	1—47 mm.
Machinery :	Atlas Imperial Diesel motor. B.H.P. : 320
Speed :	10 kts.
Complement :	11

Notes.—Rebuilt enlarged and engined 1947.



1953, *Official*.

ÆGIR

Builders :	Burmeister & Wain, Copenhagen
Launched :	April 25, 1929
Measurement :	507 tons *gross*
Length :	171½ feet
Guns :	1—57 mm.
Machinery :	B. & W. Diesel engines. B.H.P. : 1,300
Speed :	14 kts.
Complement :	25

Lighthouse Tender.

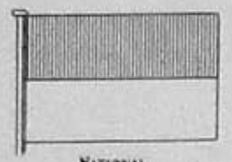
HERMODUR

Built :	Stockholm
Launched :	May 19, 1947
Measurement :	208 tons *gross*
Length :	111½ feet
Guns :	1—47 mm.
Machinery :	Atlas Diesel motor. B.H.P. : 390
Speed :	12 kts.
Complement :	13

Note.—Rated as Lighthouse Tender, but employed as Fishery Patrol Vessel during the Winter.

INDONESIA

Flags.


NATIONAL

PRESIDENT

Destroyer.

GADJAH MADA.

Added 1951.

GADJAH MADA (*ex-Tjerk Hiddes, ex-Nonpareil*)

Builders :	Wm. Denny & Bros. Ltd., Dumbarton
Laid down :	22 May, 1940
Launched :	25 June, 1941
Completed :	30 Oct. 1942
Displacement :	1,760 tons
Dimensions :	348 × 35 × 9 feet
Guns :	6—4·7 inch, 4—40 mm. AA., 6—20 mm. AA.
Tubes :	10—21 inch (quintupled)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts. (31 kts. sea speed)
Boilers :	2, of 3-drum type
Complement :	246

Notes.—Formerly British. Purchased from Great Britain by Netherlands 1941. Transferred from the Royal Netherlands Navy to Indonesian Navy on March 1, 1951. Flagship of the Indonesian Navy. Pendant No. D 806.

Frigates.

(*Corvette Type*).

4 "Banteng" Class.

1951, *Indonesian Navy, Official.*

BANTENG (*ex-Ambon, ex-Cairns*)
HANG TUAH (*ex-Morotai, ex-Ipswich*)
PATI UNUS (*ex-Tidore, ex-Tamworth*)
RADJAWALI (*ex-Banda, ex-Wollongong*)

Displacement :	815 tons *standard* (1,025 tons *full load*)
Dimensions :	162 (*pp.*), 186 (*o.a.*) × 31 × 8¼ feet
Guns :	1—4 inch, 1—40 mm. AA., 4—20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,000 = 15·5 kts.
Boilers :	2, of 3-drum type
Complement :	56 to 70

General Notes.—All Australian built. *Hang Tuah* and *Pati Unus* were transferred from Royal Netherlands Navy, Dec. 28, 1949 *Banteng* and *Radjawali* April 6, 1950.

Historical Note.—*Hang Tuah* was named after a naval hero who repulsed a Chinese invasion in the fifteenth century.

Name	*Builders*	*Launched*
Banteng	Walkers, Maryborough	7 Oct., 1941
Hang Tuah	Evans Deaking, Brisbane	11 Aug., 1941
Pati Unus	Walkers, Maryborough	14 Mar., 1942
Radjawali	Cockatoo Docks & Eng. Co.	5 Jul., 1941

216R

Surveying Vessel.

Completing.

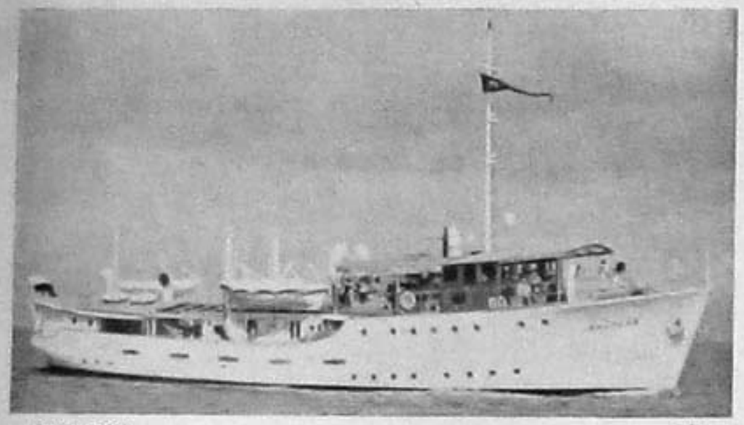
BURDJAMHAL

Builders :	Scheepswerf De Waal, Zaltbommel
Launched :	6 Sept. 1952
Displacement :	1,200 tons
Dimensions :	211¼ (o.o.), 192 (p.p.) × 33½ × 10 feet
Machinery :	2 Werkspoor Diesel Engines. B.H.P. : 1,160
Complement :	90

Note.—Not yet commissioned.

Deep Sea Exploration Vessel.

(Laboratory Ship)



SAMUDERA 1953.

SAMUDERA

Builders :	Ferus Smit, Foxol
Launched :	28 May 1952
Completed :	28 Aug. 1952
Measurement :	200 tons *gross*
Dimensions :	125½ × 21½ × 9¾ feet
Machinery :	Werkspoor Diesel Engine. B.H.P. : 450

Notes.—Same type as "Bango" class motor patrol vessels, but equipped as a laboratory ship. Commissioned 29 Aug. 1952. Will be used for deep sea exploration in Indonesian waters.

Lighthouse Tender.

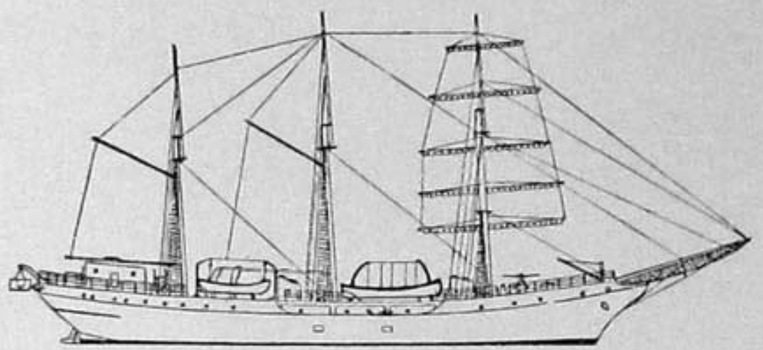
BIDUK 1953, *courtesy P. Bronsveld.*

BIDUK

Builders :	J. & K. Smit, Kinderdijk
Launched :	30 Oct. 1951
Completed :	30 July 1952
Displacement :	1,250 tons
Dimensions :	213¼ (o.o.) × 39½ × 11½ feet
Machinery :	1 Triple expansion engine. I.H.P. : 1,600 = 12 kts.
Complement :	66

Note.—Commissioned 30 July 1952. Depth : 14¾ feet.

Training Ship.



DEWARUTJI

Builders :	H. C. Stülcken & Sohn, Hamburg
Launched :	24 Jan. 1953
Displacement :	810 tons
Dimensions :	189 (o.o.), 135½ (p.p.) × 31 × 13¼ feet
Machinery :	MAN Diesel engine. B.H.P. : 900 = 9 kts
Complement :	110

Note.—Training ship for Indonesian Navy, building in Germany.

Patrol Vessels.

6 "Balam" Class

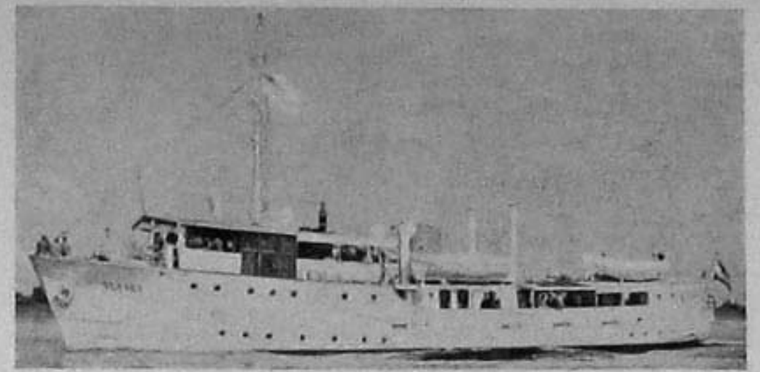
(New Construction).

BALAM

Notes.—All under construction. *Balam* and others to be commissioned in 1954.

Name	*Builders*
Balam	Jonker & Stans, H. I. Ambacht. Bodewes, Martenshoek. Gebr Boot, Leiden. Jannsen, Druten. Koopman, Dordercht. Stapel, Spaarndan.

7 "Bango Class"



BETTET 1953.

	Launched			*Launched*	
3 *Werf De Klop, Sliedrecht*			1 *Gebr Niestom, Delfzijl*		
BANGO	22 Apr.	1952	**BLEKOK**	5 June	1952
BEO	7 May	1952	1 *de Vries Lentsch, Alphen*		
BETTET	20 May	1952	**BIDO**	25 Sep.	1952
1 *L. Smit & Zn., Kinderdijk*			1 *Jonker & Stans, H. I. Ambacht*		
BABUT	20 May	1952	**BLIBIS**	17 Dec.	1952

Measurement :	194 tons *gross*
Dimensions :	120½ (pp.) 125½ (o.o.) × 21½ × 6 7/12 feet
Machinery :	Werkspoor Diesel engine. B.H.P. : 430 = 11 kts.

7 "Durian" Class

	Launched			*Launched*	
5 *De Vries Lentsch, Alphen a.d. Rijn*			2 *Werf Figee, Vlaardingen*		
DAIK	Dec.	1952	**DAGONG**	4 Sep.	1952
DAMARA	20 Dec.	1952	**DATA**	19 June	1952
DUATA	16 July	1952			
DUKU	Nov.	1952			
DURIAN	20 Mar.	1952			

Displacement :	90 tons
Dimensions :	78½ × 16 × 6½ feet
Machinery :	Caterpiller Diesel Engine. B.H.P. : 190

Patrol Vessels—*continued.*

AMPOK. 1950.

2 *Gebr. Bodewes, Martenshoek*
ARYAT
ATTAT
2 *J. & K. Smit, Kinderdijk*
AMPOK
AMPIS
2 *Gebr. Boot, Alphen a.d. Rijn*
ANGANG
ANGKLOENG
1 *L. Smit & Zn., Kinderdijk*
ANDIS
1 *Gebr. Niestern, Delfzijl*
ANTANG
1 *J. Smit, Foxhol*
AROKWES
3 *Werf Gusto (A. F. Smulders), Schiedam*
ALKAI
ALULU
ALLAP

Displacement :	143 tons (247 tons *full load*)
Dimensions :	124½ × 18½ × 5½ feet
Guns :	1—37 mm. 4 M.G.
Machinery :	Enterprise Diesel engine. B.H.P. : 400-450 = 12 kts.
Complement :	20

Note.—Built in Netherlands for Indonesia. *Ampok* and *Alkai* were shipped to Indonesia March 17, 1950. Four more followed.

Seaward Defence Motor Launches.

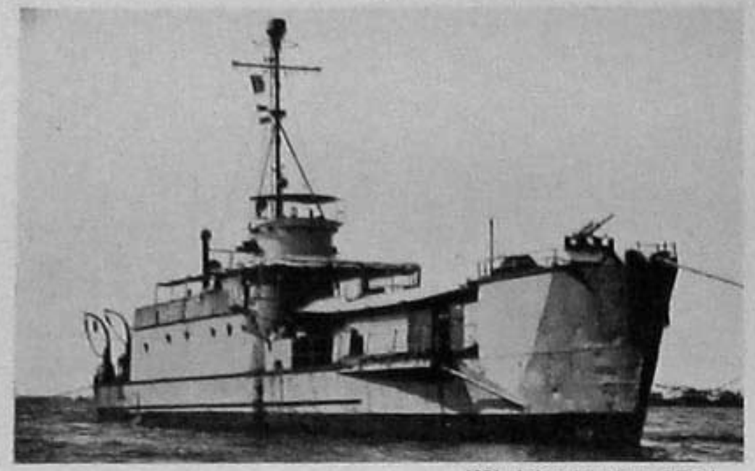
1951, *Indonesian Navy, Official.*

PP 01	**PP 06**	**PP 011**	**PP 016**	**PP 021**
PP 02	**PP 07**	**PP 012**	**PP 017**	**PP 022**
PP 03	**PP 08**	**PP 013**	**PP 018**	**PP 023**
PP 04	**PP 09**	**PP 014**	**PP 019**	**PP 024**
PP 05	**PP 10**	**PP 015**	**PP 020**	**PP 025**

Guns :	1—37 mm., 2—20 mm. Oerlikon M.G.
Complement :	10

Note.—All ex-Netherlands patrol vessels.

Landing Craft.



1951, *Indonesian Navy, Official.*

AMAHAI (ex-*Tropenvogel, LCI* 467)
BARUNAI (ex-*Ijsvogel, LCI* 948)
MARICH (ex-*Zeemeeuw*)
NAMLEA (ex-*Stormvogel, LCI* 588)
PIRU (ex-*Zeearend, LCI* 420)

Displacement :	381 tons *full load*
Dimensions :	158 × 23 × 7 feet
Guns :	1—37 mm., 2 Vickers M.G.
Machinery :	G.M. (Super High Speed Diesel). B.H.P. : 1,800 = 15 kts.
Complement :	60

LSSL 2 **LSSL 4** **LSSL 9** **LSSL 10** **LSSL 28** **LSSL 80**

Displacement :	227 tons (383 tons *full load*)
Dimensions :	158½ × 23½ × 6 feet
Guns :	1—3 inch, 4—40 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,600 = 14·5 kts.
Complement :	60

Note.—Ex-*LCS-L* transferred from U.S.A. in 1951.

Tenders.

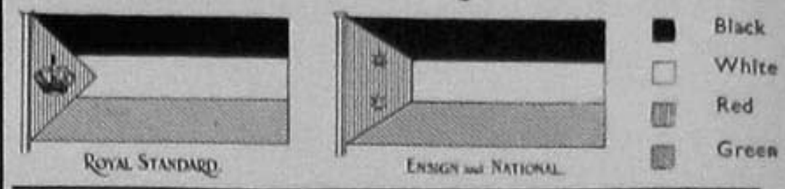
MERBABU (ex-*Merbaboe*)
RINDJANI

Displacement :	80 tons
Dimensions :	74½ × 14½ × 5 feet
Guns :	12·7 mm. Vickers, 2—7·7 mm. Lewis
Machinery :	Diesel. B.H.P. : 135 = 10 kts.
Complement :	20

DJAMPEA

Launched :	1940
Measurement :	130 tons *gross*
Dimensions :	113½ × 18½ × 6½ feet
Machinery :	Diesel. B.H.P. : 360 = 10 kts.
Complement :	10

IRAQ



ROYAL STANDARD. ENSIGN and NATIONAL.

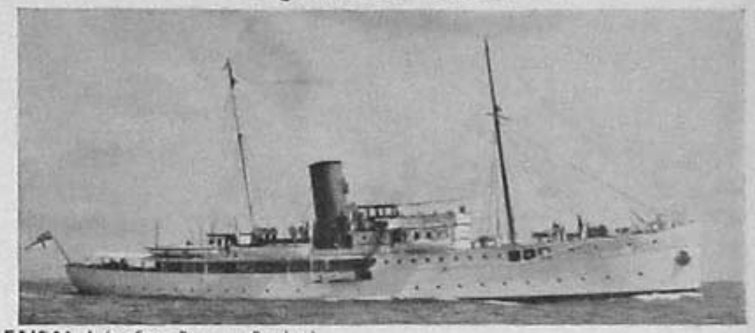
Patrol Vessels.

No. 1 **No. 2** **No. 3** **No. 4**

Displacement :	67 tons
Dimensions :	100 × 17 × 3 feet (*mean*)
Guns :	1—3·7 inch howitzer, 2—3 inch mortars, 4 M.G.
Machinery :	2 Thornycroft 6-cyl. Diesels. 2 shafts. B.H.P. : 280 = 12 kts.

Notes.—Protected by bullet-proof plating. All built by Thornycroft and launched 1937.

Lighthouse Tender.



FAISAL I (ex-*Sans Peur, ex-Restless*)

Displacement :	1,025 tons
Dimensions :	186 × 29½ × — feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 850 = 13 kts.
Boiler :	1 oil-fired

Notes.—Built at Clydebank. Launched 1923.

Tug.

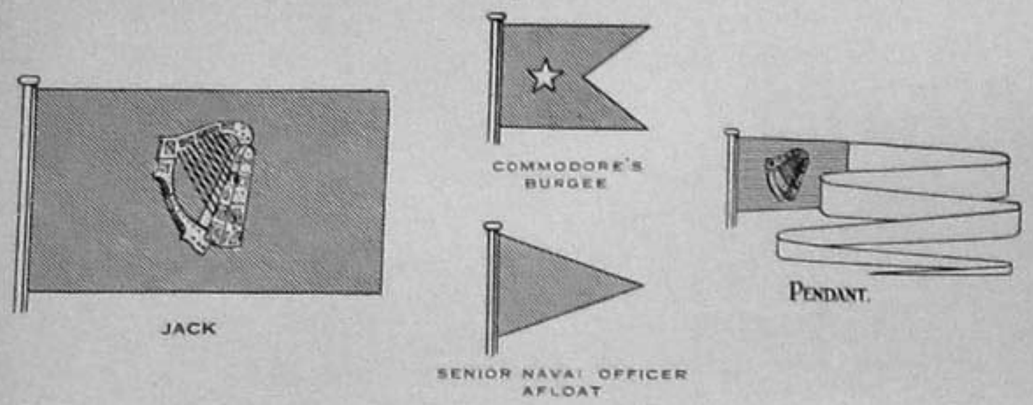
ALARM (ex-*St. Ewe*)

Displacement :	820 tons
Dimensions :	135 × 30 × 14½ feet
Machinery :	I.H.P. : 1,200 = 12 kts.
Boilers :	2 oil-fired

Notes.—Built by Murdock & Murray. Launched 1919.

IRISH NAVAL SERVICE

Flags.



The Ensign worn by public armed ships of the Naval Service and their boats is the National Flag.

The Jack is of green wool bunting with a Harp, as in the Arms of Ireland, embroidered centrally in yellow bunting.

The Commissioning Pendant (Masthead Pendant) consists of a long narrow tapering pendant of blue and white bunting with a Harp device in yellow bunting embroidered centrally in the blue portion.

The Commodore's Flag is a burgee of green wool bunting with a five-pointed star embroidered centrally in yellow bunting with one point upwards.

The Senior Officer's Flag is a triangular flag of green wool bunting.

Uniforms.

Ranks : Highest rank is *Commodore*, but no one at present holds this rank.
Lieutenant-Commanders : 2½ stripes ; *Sub-Lieutenants* : 1½ stripes (thin one on top) ; *Warrant Officers* : ½ stripe (thin) with no star.
Executive Officers : No colour. *Supply and Administrative* : White. *Technical* : Maroon.
Cap Badges : Similar to R.N. but with crown replaced by Army Crest, a gold sunburst with letters FF (" Fianna Fail ") in gold lettering on red background in centre.

Administration.

Minister for Defence : Mr. Oscar Traynor.
Director of Irish Naval Service : Captain H. J. A. S. Jerome, D.S.O., I.N.S.

Personnel.

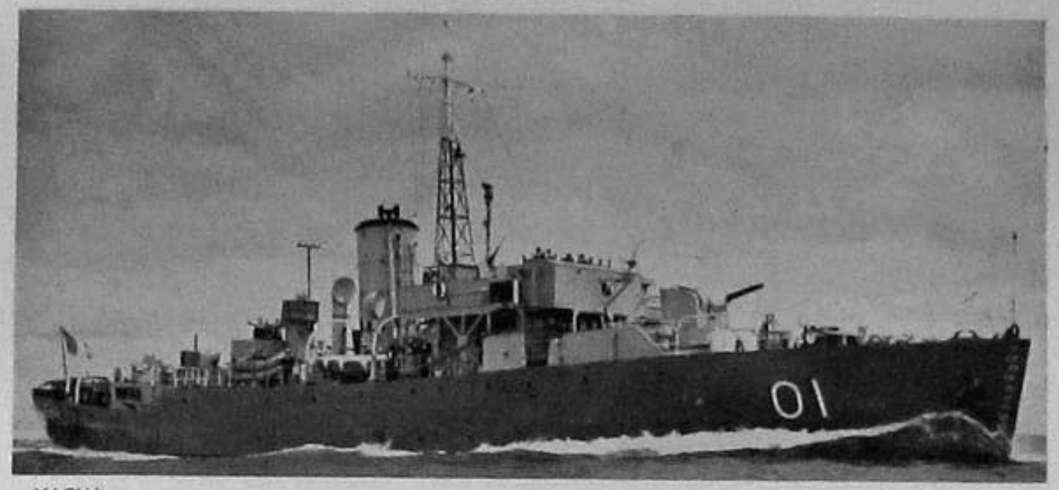
Establishment provides at present for a permanent force of 560 all ranks.
Officers have I.N.S. after their names (Irish Naval Service).
Reserves : There is a naval reserve (Sluagh Muiri), composed of yachtsmen, etc., with centres at Dublin, Cork, Limerick, Dun Laoghaire and Waterford.

Ships and Bases.

Ship's names are prefixed " L.E." (Long Eireannach = Irish Ship).
Naval Base and Dockyard : Situated at Haulbowline Island in Cork Harbour, where all training is done and most ships based.

Frigates (*Corvettes*).

3 Ex-" Flower " Class.



MACHA. 1953, *courtesy Irish Press.*

CLIONA (*ex-Bellwort*) **MACHA** (*ex-Borage*) **MAEV** (*ex-Oxlip*)

Displacement :	1,020 tons (1,280 tons *full load*)
Dimensions :	190 (*pp.*), 205 (*o.a.*) × 33 × 14½ feet
Guns :	1—4 inch D.P., 1—2 pdr., 2—20 mm. AA.
A/S weapons	Hedgehog
Machinery :	Triple expansion. I.H.P. : 2,750 = 16 kts.
Boilers :	2 S.E.
Complement :	78

Notes.—Formerly " Flower " class corvettes in Royal Navy of the type later re-rated as frigates. Purchased from Great Britain in 1946. Respective pendant Nos. are 03, 01, 02. *Macha* is fitted as Leader, and is markedly different from others with a longer upper deck and one of the mess-decks converted into a suite of cabins for the senior officer of the flotilla. Lattice mast stepped 1953.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
03	*Cliona*	George Brown	17 Sep., 1940	11 Aug., 1941	26 Nov., 1941
01	*Macha*	George Brown	21 Nov., 1940	6 Nov., 1941	29 Apr., 1942
02	*Maev*	A. & J. Inglis	9 Dec., 1940	28 Aug., 1941	28 Dec., 1941

Tenders.

JOHN ADAMS

Builders :	Thorne, Yorks.
Launched :	1934
Measurement :	94 tons *gross*
Dimensions :	85 × 18½ × 7 feet
Machinery :	Diesel. B.H.P. : 125 = 8 kts.

GENERAL McHARDY

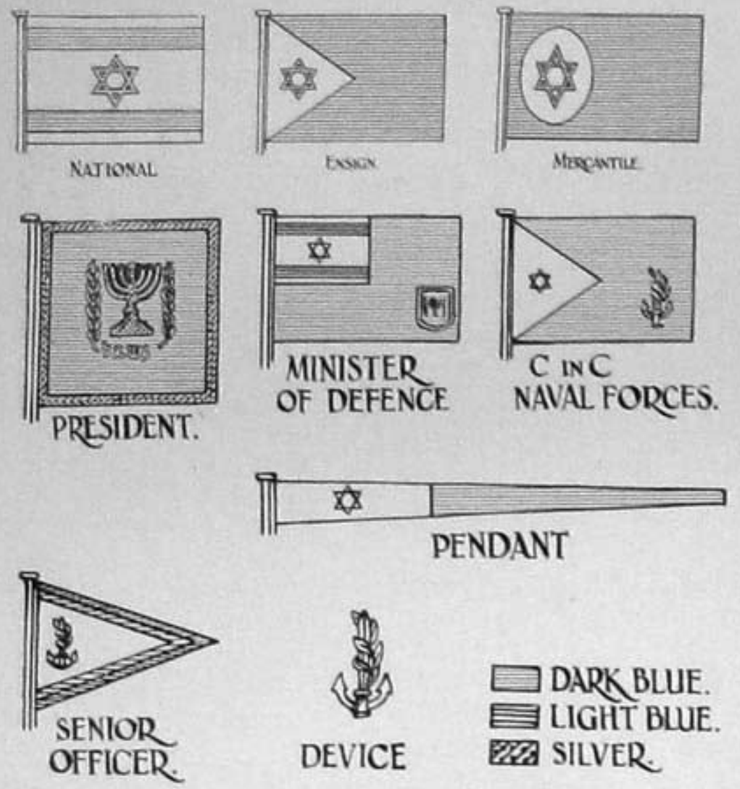
Builders :	Dartmouth
Launched :	1928
Measurement :	100 tons gross
Dimensions :	76½ × 18 × 9½ feet
Machinery :	Compound reciprocating. I.H.P. : 200 = 9 kts.

WYNDHAM

Builders :	Cox, Falmouth.
Launched :	1903
Measurement :	93 tons gross
Dimensions :	85 × 16½ × 8 feet
Machinery :	Compound reciprocating. I.H.P. : 200 = 9 kts.

ISRAEL

Flags.



The National Flag is white with two horizontal blue stripes and the blue Shield of David in the centre.

The device in the Senior Officer's flag is similar to that on the uniforms.

Administration.

Commander-in-Chief Naval Forces: Commodore M. Limon.
Naval Attache in London: Lt.-Col. K. P. Salmon.

Mercantile Marine.

Lloyd's Register appendix, 1953 :
32 vessels of 108,929 tons *gross*.

Uniforms.

The device above the stripes is as indicated under flags in Column 1. It is a sword with anchor flutes at the hilt and an olive branch intertwined.

Coloured velvet cloth between stripes as follows :

Engineer Officers :	Maroon
Medical Officers :	Red
Supply Officers :	Light Blue
Administrative Officers :	Green

The Officers' cap badge also has the sword, anchor flute hilt and olive branch as a centrepiece surrounded by leaves.

Frigates.

MISGAV. 1952, *Official*.

MISGAV (*ex-H.M.C.S. Strathadam*) **MITVACH** **MISNAK**

Displacement :	1,445 tons (2,360 tons *full load*)
Dimensions :	301½ × 36½ × 12 feet
Guns :	2—4 inch, 10—20 mm. A.A.
Machinery :	H.P. : 5,500 = 20 kts.

Notes.—"River" type. *Misgav* launched 20 March, 1944.

Frigates—*continued.*

HAGANAH. 1952, *Official*.

HAGANAH (*ex-Balboa, ex-H.M.C.S. Norsyd*) **WEDGEWOOD** (*ex-H.M.C.S. Beauharnois*)

Displacement :	970 tons (1,350 tons *full load*)
Dimensions :	208½ × 33 × 18 feet
Guns :	2—4 inch, 10—20 mm. AA.
Machinery :	I.H.P. : 2,750 = 16·5 kts.

Notes.—"Flower" type. Rated as corvettes. *Haganah* launched 31 July, 1943.

Coast Guard Vessels.

1952, *Official*.

MAOZ

Displacement	1,700 tons
Dimensions :	240 × 39 × 17½ feet
Machinery :	Turbo-electric. S.H.P. : 2,600 = 15 kts.

Note.—Ex-United States Coast Guard Cutter.

NOGAH (*ex-PC 16*)

Displacement :	295 tons (450 tons *full load*)
Dimensions :	173½ × 23 × 10 feet
B.H.P. :	1,746 = 18 kts.
Complement :	70

214R

Training Ship.

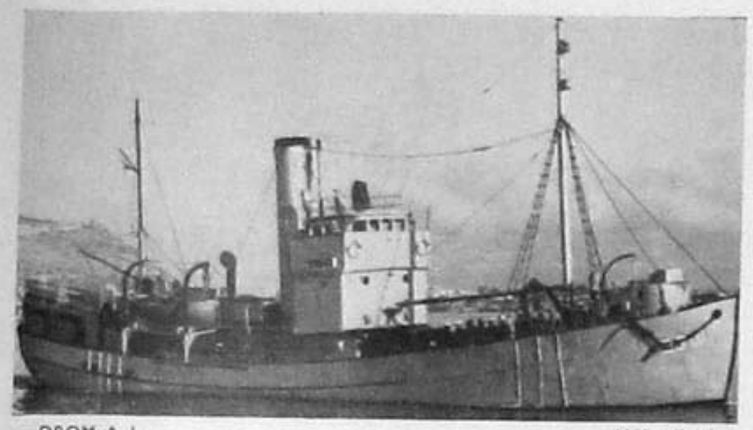
EILAT. 1952, *Official.*

EILAT

Displacement :	2,150 tons
Dimensions :	216½ × 39 × 17 feet
Guns :	1—3 inch, 4—20 mm. AA.

Notes.—Ex-United States Coast Guard Cutter.

Minesweepers.



DROM A 1. 1953, *official.*

	DROM A I	DROM A II
Displacement :	300 tons	
Dimensions :	130 × 25 × 13 feet	
Guns :	1—3 inch, 1—20 mm. AA.	
Machinery :	I.H.P. : 500 = 10 kts.	

Notes.—Built in South Africa. Trawler type.

Motor Torpedo Boats.

4 Meulan Type.

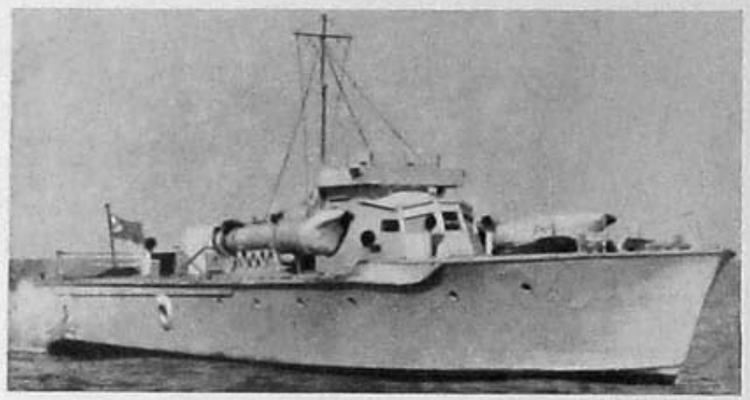
T 207. 1953, *courtesy Builders.*

T 208. 1953, *courtesy M. Henri Le Masson.*

	T 207	T 208
Displacement :	62 tons	
Dimensions :	85½ (*o.a.*) × 20½ × 5 feet	
Guns :	1—40 mm., 4—20 mm. A.A.	
Torpedoes :	2—18 inch	
Machinery :	4 Arsenal Marine Petrol Engines. 2 shafts. B.H.P. : 4,600 = 40 kts.	

Notes.—Built by Chantiers de Meulan.

9 Vosper Type.



1952, *Official.*

Displacement :	43 tons
Dimensions :	70 × 19 × 5 feet
Guns :	1—40 mm., 2—20 mm. AA.
Tubes :	2—18 inch
Machinery :	3 Packard engines. B.H.P. : 4,050 = 40 kts.

Notes.—Flotilla of M.T.B.s. purchased in Great Britain. Vosper type. Built 1942.

Motor Launches.

HAPORTZIM. 1952, *Official.*

HAPORTZIM

Displacement :	65 tons (86 tons *full load*)
Dimensions :	112 × 18½ × 5 feet
Guns :	3—20 mm. AA.
Speed :	19 kts.

Note.—Fairmile " B " type.

	DROR	SAAR	TIRTSA
Displacement :	46 tons (54 tons *full load*)		
Dimensions :	72 × 16 × 5½ feet		
Guns :	1—40 mm., 1—20 mm. AA.		
Speed :	12 kts.		

Note.—HDML flotilla.

Landing Craft.

One Flotilla LCT

Displacement :	143 tons (309 tons *full load*)
Dimensions :	120 × 33 × 4 feet
Machinery :	3 Diesels. B.H.P. : 675 = 10 kts.

LCI. 1953, *official.*

One Flotilla LCI

Displacement :	387 tons
Dimensions :	159 × 23 × 5½ feet
Guns :	3 M.G.
Speed :	14·4 kts.

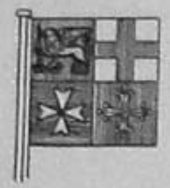
One Flotilla LCM

Displacement :	22 tons (60 tons *full load*)
Dimensions :	50 × 14 × 3½ feet
Machinery :	2 Diesels. B.H.P. : 450 = 11 kts.

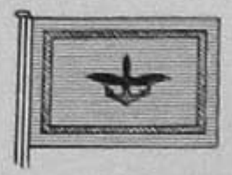
ITALY

Flags.

ENSIGN



JACK



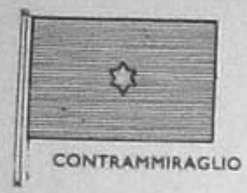
MINISTER OF DEFENCE

UNDER SECRETARY OF MINISTRY OF DEFENCE

CHIEF OF NAVAL STAFF

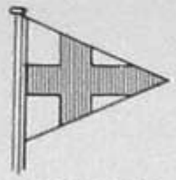
AMMIRAGLIO DI SQUADRA

AMMIRAGLIO DI DIVISIONE

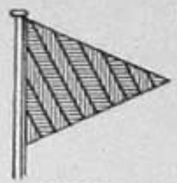


CONTRAMMIRAGLIO

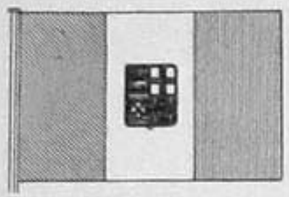
CAPITANO DI VASCELLO (commanding division)



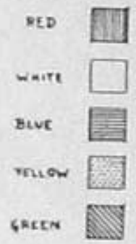
SENIOR NAVAL OFFICER



FLOTILLA LEADER



MERCANTILE

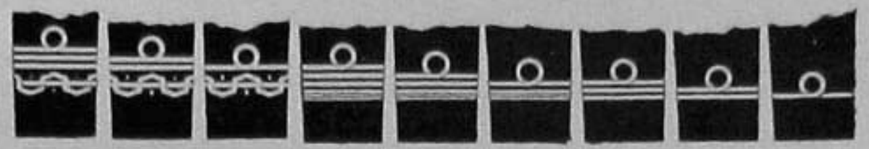


Administration.

Minister of Defence : Signor Randolfo Pacciardi.
Chief of Naval Staff : Ammiraglio di Squadra Emilio Ferreri.
Deputy Chief of Naval Staff : Contrammiraglio Giuseppe Marini.
Commander-in-Chief Naval Forces : Ammiraglio di Squadra Giuseppe Manfredi

Naval Attache in London : Contramiraglio Ernesto Giuriati.

Uniforms.



	Ammiraglio di Squadra.	Ammiraglio di Divisione.	Contrammiraglio.	Capitano di Vascello.	Capitano di Fregata.	Capitano di Corvetta.	Tenente di Vascello.	Sottotenente di Vascello.	Guardiamarina.
British equivalent.	*Vice-Admiral.*	*Rear-Admiral.*	*Rear-Admiral.*	*Captain.*	*Commander.*	*Lieut.-Com.*	*Lieut.*	*Sub.-Lieut.*	*Acting Sub.-Lt.*

The rank of Admiral no longer exists. It was equivalent to the former *Ammiraglio d'Armata* and *Ammiraglio di Squadra designato d'Armata.*

Lesser ranks are : *Aspirante* (Midshipman) ; *Allievo dell' Accademia Navale* (Naval Cadet).

Other branches distinguished by following colours :

Armi Navali (Ordnance Constructors),	yellow-brown.
Genio Navale (Naval Constructors and Engineers),	dark purple.
Sanitario (Doctors),	blue.
Commissariato (Supply Officers),	red.
Farmacisti (Chemists),	green.
Capitanerie di Porto (Harbour Masters),	grey-green.

A five-pointed silver star (or gold in the case of flag officers) is worn on lapel of coat. All officers under arms on duty wear a blue sash over right shoulder, ending in a blue knot at left hip ; worn with belt. Officers on staff duty wear it on opposite shoulder, with or without belt. Tropical white tunic has insignia of rank on shoulder straps. Senior lieutenants wear a piece of gold under the stripes of shoulder strap.

Personnel.

25,000 officers and ratings, increasing to 35,000 officers and ratings.

Five Year Programme.

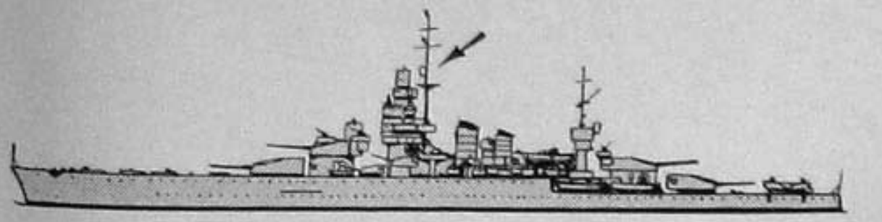
A five-year programme of construction carried out from Jan. 1, 1950, when the ban on new warships imposed by the Italian Peace Treaty expired, provides for two large destroyers (former light cruisers) with special anti-aircraft installations to replace the over-age ships, two new destroyers equipped with anti-aircraft and anti-submarine weapons, two new frigates (escort vessels) and many minor units.

Mercantile Marine.

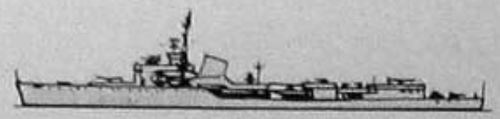
Lloyd's Register appendix, 1953 : 1,104 vessels of 3,289,630 tons *gross.*

213R

* Scale : 150ft. = 1 inch.

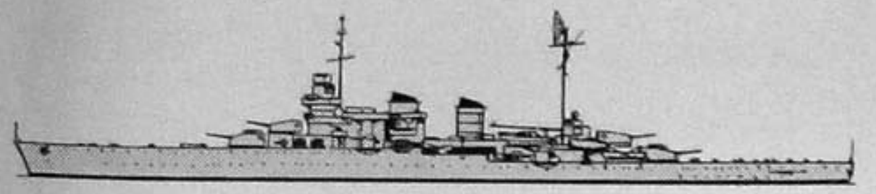


ANDREA DORIA.

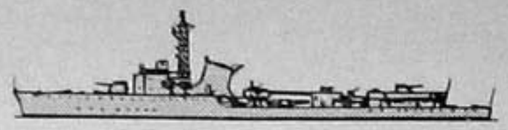


CARABINIERE.

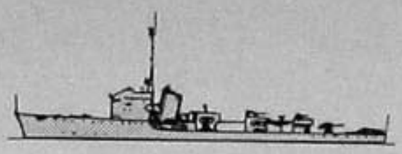
ARETUSA (AU).
SAGITTARIO (SG) similar.
(Now again modified).



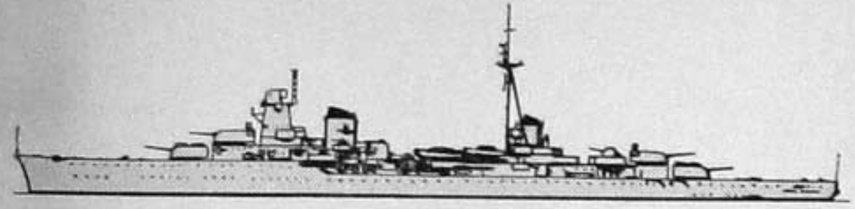
GIUSEPPE GARIBALDI.



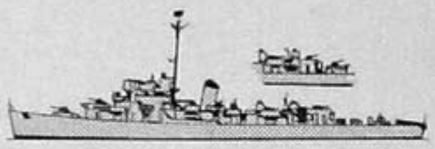
GRECALE.
(Before 2nd conversion. Will be similar to *Granatiere*).



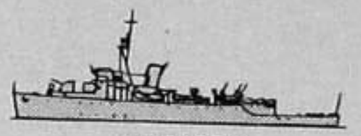
CASSIOPEA *Class*.



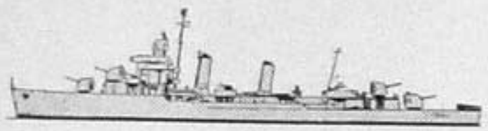
RAIMONDO MONTECUCCOLI



ALTAIR *Class*.
(Inset ALDEBARAN).



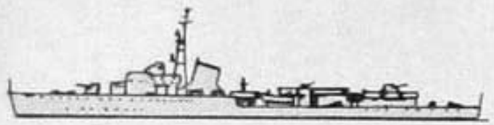
ALABARDA



AVIERE.

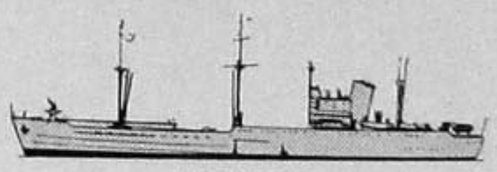
ORIONE, ORSA.

BOMBARDA.*



GRANATIERE.

CALLIOPE.
(Now again modified).



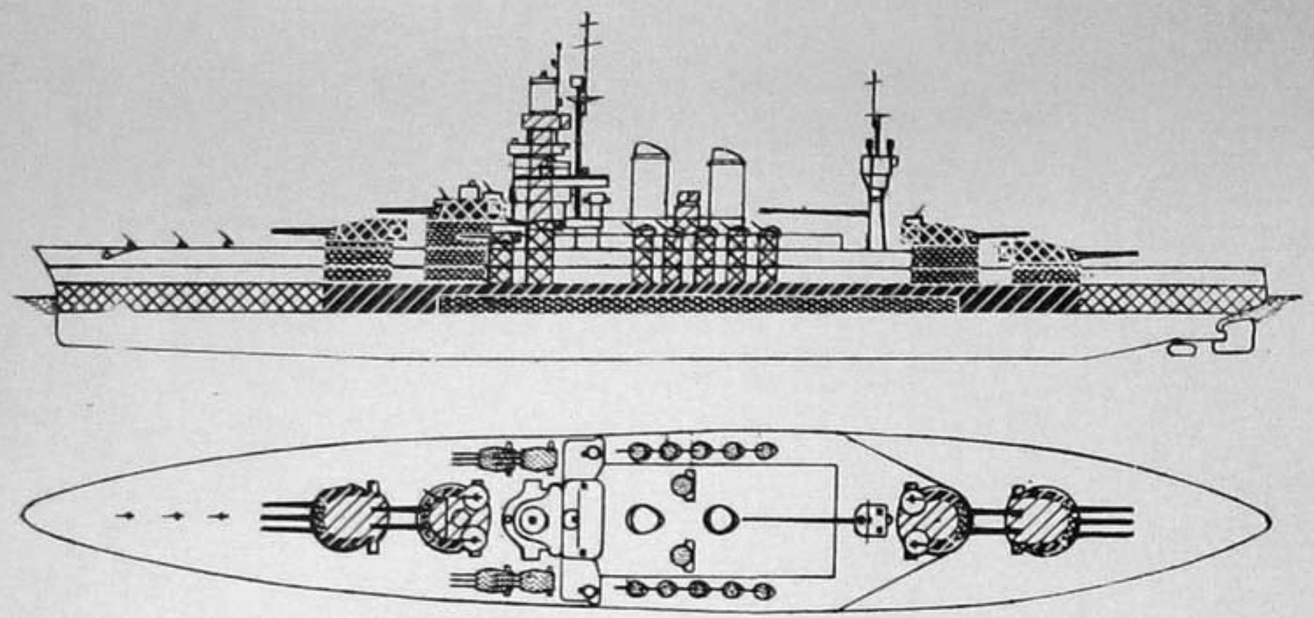
STROMBOLI.

Battleships

2 " Doria " Class.

ANDREA DORIA — CAIO DUILIO

Displacement :	23,622 tons *standard* (28,882 tons *full load*)
Dimensions :	Length : 597 (*w.l.*), 611½ (*o.a.*) feet. Beam : 92 feet. Draught : 30 feet (*mean*)
Guns :	10—12·6 inch, 44 cal., 12—5·3 inch, 45 cal., 10—3·5 inch AA., 50 cal., 19—37 mm., 12—20 mm.
Armour :	9¾"-8" Belt (amidships), 5" Belt (ends), 9¾" Barbettes, 11" Turret to these, 11" C.T. (fore)
Machinery :	Belluzzo geared turbines. 2 shafts. S.H.P. : 75,000 = 27 kts. on recent sea trials.
Boilers :	8, of 3-drum type (working pressure reported to be 500 lb per sq. inch)
Oil fuel :	2,000 tons
Complement :	1,198



General Notes.—Rebuilt 1937-40. These ships were originally of entirely different appearance, with a main armament of 13—12 inch guns, in 3 triple and 2 double turrets, and a secondary battery of 6-inch guns. *Caio Duilio* now has two ex-U.S. Army radar sets. *Doria*, the present Italian flagship, has one P.P.I. Sperry radar set and some other radar AA. sets.

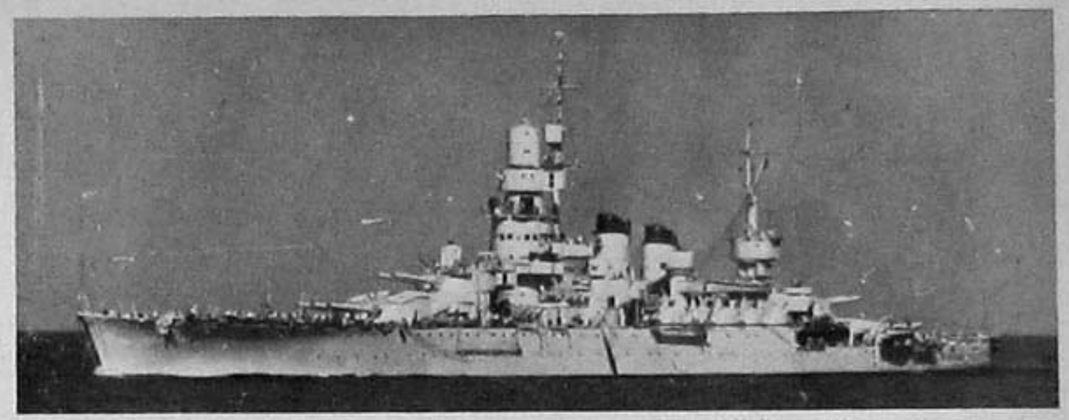
Gunnery Notes.—12·6-inch guns are a Terni model, reported to have given remarkably successful results in proof tests. They are 43·8 calibres in length. *Caio Duilio* has director equipment of San Giorgio type.

Armour Note.—As reconstructed protection is improved over magazines, machinery and boiler spaces.

No.	*Name*	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*	*Rebuilt by*
B 50	*Andrea Doria*	Spezia	Ansaldo	24 Mar. 1912	30 Mar. 1913	Mar. 1916	C. R. dell' Adriatico
B 51	*Caio Duilio*	Castellammare	Ansaldo	25 April 1912	24 April 1913	May 1915	C. Nav. del Tirreno

CAIO DUILIO

Added 1953, Italian Navy, Official.



ANDREA DORIA.

Added 1952 (Photo 1951) Lieut. Aldo Fraccaroli.

ANDREA DORIA.

1951, *A. & J. Pavia*

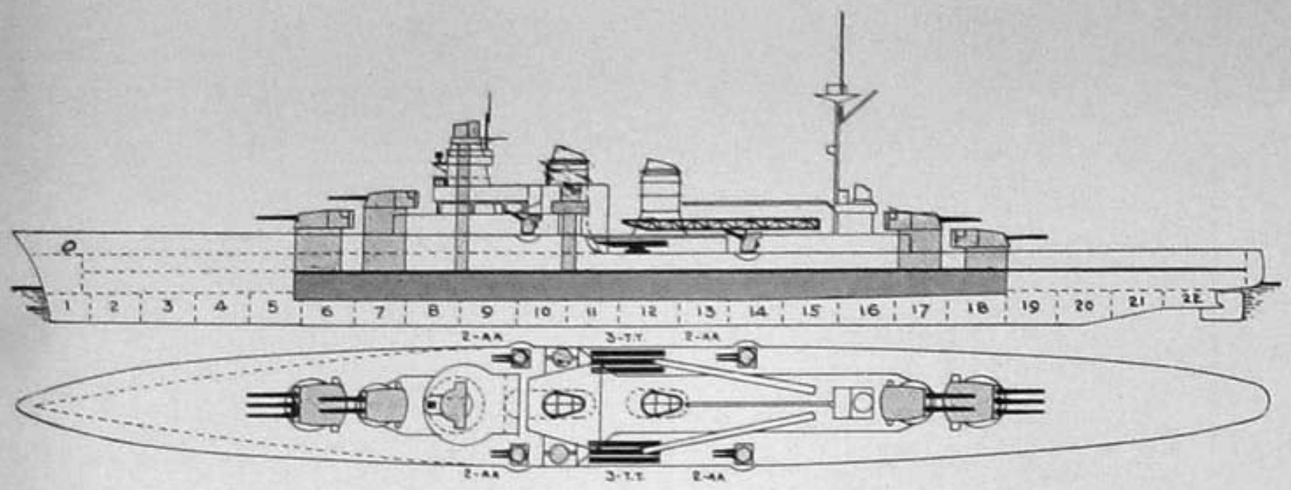
2126

Cruisers.

2 " Garibaldi " Class.

GIUSEPPE GARIBALDI **LUIGI DI SAVOIA DUCA DEGLI ABRUZZI**

Displacement :	7,602 tons *standard* (11,590 tons *full load*, *Garibaldi* 11,084 tons)
Dimensions :	Length : 593 (*w.l.*), 613½ (*o.o.*) feet. Beam : 61 feet. Draught : 17 feet (*mean*)
Guns :	10—6 inch, 55 cal., 10—3·9 inch, 47 cal., 12—37 mm. AA., 54 cal., 10—20 mm. AA., 65 cal., 3—8 mm. AA. 2 D.C.T.
Armour :	½"-1½" Vertical Side, 2½" Deck, 4" Turrets, 5" C.T.
Machinery :	Parsons geared turbines. 2 shafts. Designed S.H.P. : 100,000 = 35 kts. (designed)
Boilers :	8, of 3-drum type
Oil fuel :	1,680 tons
Complement :	600



Note to Plan.—Now have no torpedo tubes, which were replaced by two single 3·9 inch (100 mm., 47 cal.) AA. guns. *Duca Degli Abruzzi* now has a small yard (horn) in fore part of conning tower for radar use.

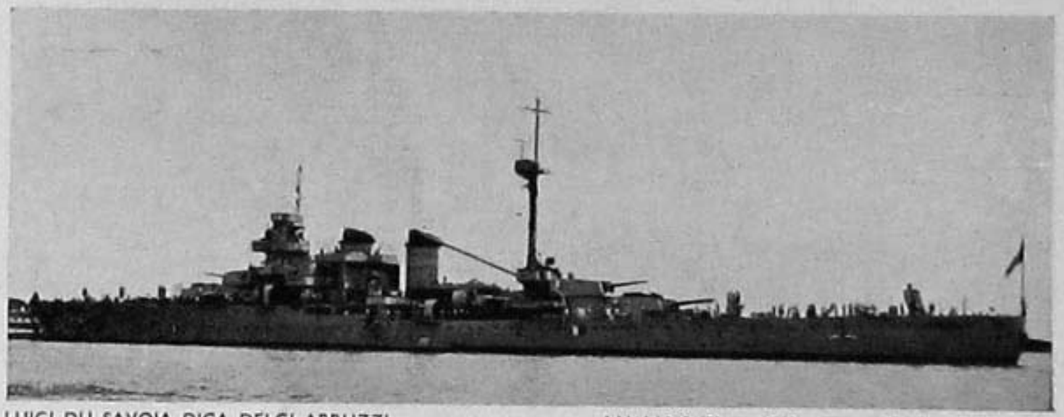
General Notes.—These ships represent the ultimate expansion of the original "Condottieri" design. The 6-inch guns are a new model more powerful than the 53 cal. weapons with which previous cruisers have been armed. On first trials, *Giuseppe Garibaldi* exceeded 33·6 kts. with 104,030 S.H.P. Actual speed does not now exceed 31 kts. in both ships. They are equipped for mine-laying.

Reconstruction Notes.—Both of these cruisers rebuilt under the new five-year naval programme. Slightly different conning tower with small lattice mast and radar aerials, mainmast shortened to the top on which are radar sets one of which has large antennae similar to American type. The armament is now undergoing modernisation. *Garibaldi* completed 16 months refit at La Spezia Navy Yard in Jan. 1951. *Ducadelgi Abruzzi* completed 27 months refit at La Spezia Navy Yard in June 1953. Both will be in service after their conversion as AA. cruisers in autumn 1954.

No.	Name	Builders	Laid down	Launched	Completed
C 551	*Giuseppe Garibaldi*	C.R. dell' Adriatico	Dec. 1933	21 Apr. 1936	1937
C 550	*Luigi di Savoia Duca delgi Abruzzi*	Odero-Terni-Orlando	Dec. 1933	21 Apr. 1936	1937

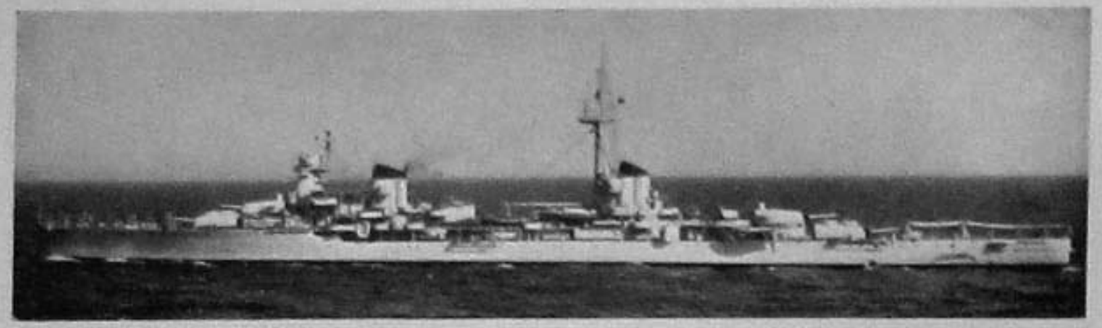
GIUSEPPE GARIBALDI. *Added 1952 (Photo 1951) Lieut. Aldo Fraccaroli.*

LUIGI DI SAVOIA DUCA DELGI ABRUZZI. *Added 1951 (Photo 1950), Lieut. Aldo Fraccaroli.*



LUIGI DU SAVOIA DICA DELGI ABRUZZI. *Added 1949 (Photo 1948) courtesy Dott. Ing. L. Accorsi.*

Cruiser.

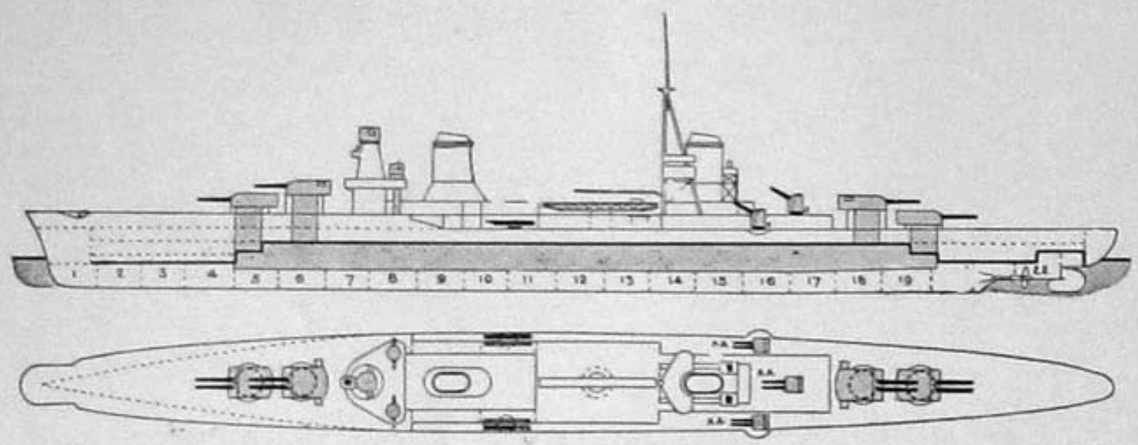


RAIMONDO MONTECUCCOLI. 1953, *Lieut. A. W. Sugden, R.N.*

RAIMONDO MONTECUCCOLI

Builders :	Ansaldo, Sestri Ponente
Laid down :	Oct., 1931
Launched :	Aug. 2, 1934
Completed :	July, 1935

Displacement :	6,941 tons *standard* (9,348 tons *full load*)
Dimensions :	Length : 575½ (pp.), 577 (w.l.), 597½ (o.a.) feet. Beam : 54½ feet. Draught : 14½ feet (*mean*)
Guns :	8—6 inch, 53 cal., 6—3·9 inch, 47 cal AA., 8—37 mm. AA., 10—20 mm. AA., 2 D.C.T.
Mines :	Can carry 66 to 112
Armour :	Thin plating only on turrets and decks but side armour decidedly thicker at waterline
Machinery :	Belluzzo geared turbines. 2 shafts. Boilers : 6, of 3-drum type. S.H.P. : 106,000 = 34 kts.
Oil fuel :	1,200 tons
Complement :	522

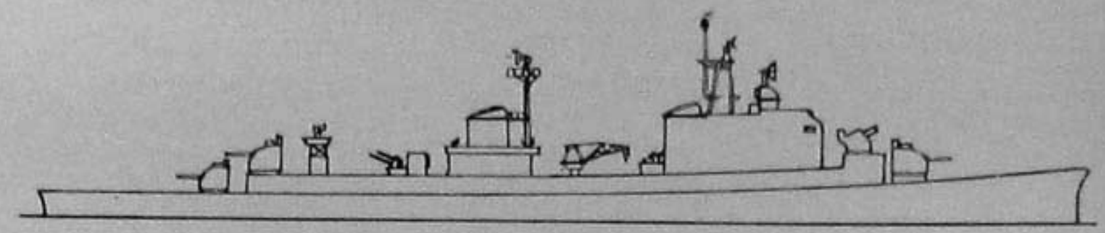


Note to Plan.—Torpedo tubes removed. Now has an AA. radar set on mainmast.

Notes.—*Raimondo Montecuccoli* was begun under the 1930 Programme, but construction was held up pending alterations to plans. Commissioned in July, 1935, she made 39·5 kts. on trials, without stores or ammunition on board. Equipped for minelaying. Used as training ship for midshipmen in summer 1949. Pendant No. C 552. The future of sister ship, *Muzio Attendolo* is uncertain She was sunk by bombing at Naples in Dec. 1942, has been refloated and was to have been reconstructed and rearmed as an anti-aircraft cruiser.

Destroyer Leaders (ex-Light Cruisers).

2 "San Giorgio" Class (officially rated as *Cacciatorpediniere di Squadra*).



SAN GIORGIO (*ex-Pompeo Magno*) **SAN MARCO** (*ex-Giulio Germanico*)

Displacement :	3,500 tons *standard* (5,300 tons *full load*)
Dimensions :	455 × 47½ × 16½ feet
Guns :	6—5 inch, 38 cal. ; 20—40 mm., 56 cal. AA.
A/S weapons :	Bow A/S weapon. Depth charges
Machinery :	Geared steam turbines. 2 shafts. S.H.P. : 110,000 = 38 kts. Sea speed 36 kts.
Boilers :	4

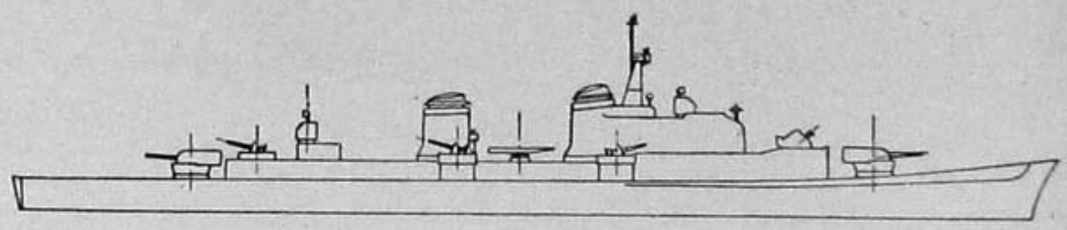
Notes.—These two vessels were originally built as light cruisers of the "Attilio Regolo" or Roman Captain (*Capitani Romani*) class. *Giulio Germanico* was sunk by the Germans on Sept. 1943 before she was completed, but was refloated in 1947. Both ships now undergoing conversion into anti-aircraft and anti-submarine destroyers or fast frigates (squadron leaders) by Cantieri del Tirreno, Genova, and Navalmeccanica Castellammare di Stabia. Sister ships of *Chateaurenault* (*ex-Attilio Regolo*) and *Guichen* (*ex-Scipione Africano*) now undergoing conversion as *Escorteurs de Premiere Classe* for the French Navy.

Pendant Nos.	*Name*	*Builders*	*Laid down**	*Launched*	*Completed**
D 562	*San Giorgio*	C.N.R. Ancona	23 Sep., 1939	28 Aug., 1941	24 Jun., 1943
D 563	*San Marco*	Navalmeccanica Castellammare di Stabia	11 May, 1940	20 Jul., 1941	*See Notes.*

* Conversion to be completed Autumn 1954.

Large Destroyers (New Construction).

2 "Impetuoso" Class.



IMPETUOSO **INDOMITO**

Displacement :	2,775 tons *standard* (3,592 tons *full load*)
Dimensions :	404¾ × 42¾ × 14 feet
Guns :	4—5 inch, 38 cal. AA., 16—40 mm. 56 cal. Bofors AA.
Tubes :	3—21 inch.
A/S weapons :	Bow A/S weapon. Depth charges
Machinery :	Geared Turbines 2 shafts. S.H.P. : 65,000 = 34 kts.
Boilers :	4

Note.—Large destroyers with special anti-submarine and heavy anti-aircraft armament. They will embody to some degree the material earmarked for the wartime "Comandanti" class destroyers. Originally to have been named *San Giorgio* and *San Marco*, respectively.

Pendant Nos.	*Name*	*Builders*	*Ordered*	*Laid down*
D 558	*Impetuoso*	Cantieri del Tirreno, Riva Trigoso	Nov., 1950	7 May, 1952
D 559	*Indomito*	Ansaldo, Leghorn (formerly O.T.O. Yard)	Nov., 1950	24 April, 1952

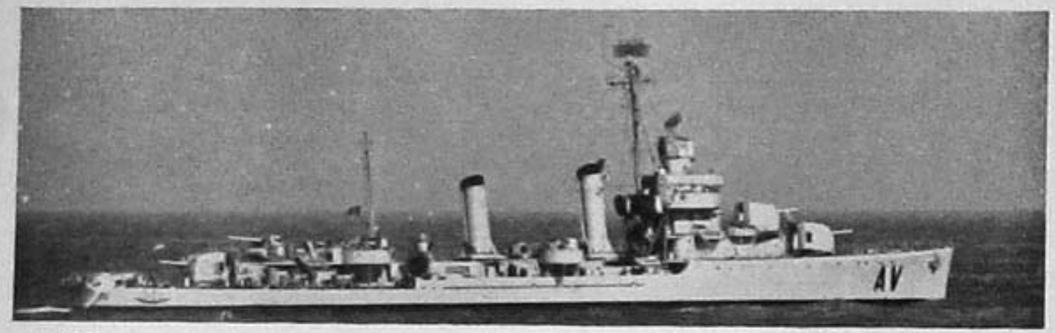
Destroyers.

2 " Artigliere " Class.

ARTIGLIERE. 1953, *Lieut. A. W. Sugden, R.N.*

ARTIGLIERE (ex-U.S.S. *Woodworth, DD 460*)

Displacement :	1,620 tons (2,450 tons *full load*)
Dimensions :	348½ (*o.a.*) × 35¼ × 18 (*max.*) feet
Guns :	4—5 inch, 38 cal., 12—40 mm. 56 cal., 6—20 mm., 70 cal.
Torpedo tubes :	Removed
A/S weapons :	4 D.C. Throwers
Machinery :	Geared turbines. 2 shafts. S.H.P. : 50,000 = 37 kts. (Sea speed 31 kts.)
Boilers :	4 high pressure
Complement :	200



AVIERE. 1952, *Lieut. Aldo Fraccaroli.*

AVIERE (ex-U.S.S. *Nicholson, DD 442*)

Displacement :	1,630 tons (2,450 tons *full load*)
Dimensions :	341 (*w.l.*), 348½ (*o.a.*) × 36 × 10 (18 *max.*) feet
Guns :	4—5 inch, 38 cal., 12—40 mm. Bofors, 6—20 mm. Oerlikon
Torpedo tubes :	Removed
A/S weapons :	4 D.C.T.
Machinery :	General Electric geared turbines. 2 shafts. S.H.P. : 50,000 = 37 kts.
Boilers :	4 Babcock & Wilcox.
Complement :	250 (war)

General Notes.—Both transferred from the United States Navy under the Mutual Assistance Defense Program and commissioned 25 May, 1951. Officially turned over to Italy, 11 June, 1951.

Appearance Notes.—*Artigliere* has flat sided funnels, but *Aviere* has round funnels, see photos.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 553	*Artigliere*	Bethlehem, San Francisco	13 Jan., 1941	29 Nov., 1941	1942
D 554	*Aviere*	Boston Navy Yard	1 Nov., 1941	31 May, 1940	1941

Fast Anti-Submarine Escorts (ex-Destroyers).

2 " Granatiere " Class (officially rated as *Cacciatorpediniere di Scorta.*)

CARABINIERE *Added 1952 (Photo 1951.) Lieut. Aldo Fraccaroli.*

	CARABINIERE	**GRANATIERE**
Displacement :	1,830 tons *standard* (2,479 tons *full load*)	
Dimensions :	339 (*w.l.*), 350 (*o.a.*) × 33¼ × 10¼ feet (*mean*)	
Guns :	4—4·7 inch, 50 cal., 3—73 mm. AA., 54 cal., 12—20mm. AA., 65 cal.	(*Granatiere* see notes.)
Tubes :	3—21 inch (tripled)	
Machinery :	2 sets Belluzzo geared turbines. 2 shafts. S.H.P. : 48,000 = 38 kts. (32 kts. sea speed)	
Boilers :	3, of 3-drum type	
Oil fuel :	543 tons	
Complement :	189	

Notes.—*Carabiniere* undergoing modernisation similar to *Granatiere* converted to Submarine Killer with hedgehog forward, 1—4·7 inch gun on forecastle, twin 4·7 inch mounting aft, 6—40 mm., 56 cal. guns in twin mountings (same armament as *Grecale.*)

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 551	*Carabiniere*	Cantieri del Tirreno, Riva Trigoso	Feb., 1937	24 Jul., 1938	Dec., 1939
D 550	*Granatiere*	C.N.Riuniti, Palermo	Apr., 1937	24 Apr., 1938	Feb., 1939

1 " Grecale " Class.

GRECALE (before 2nd conversion.) 1951, *Lieut. Aldo Fraccaroli.*

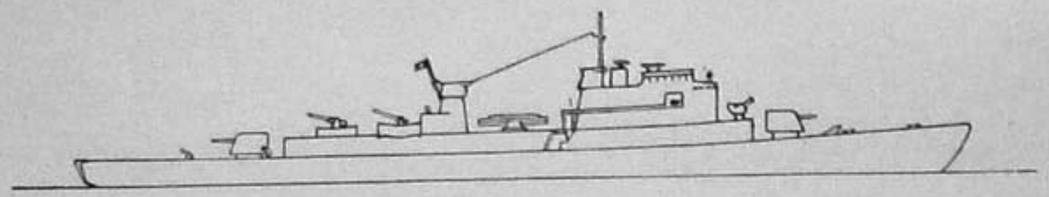
GRECALE

Builders :	C.N. Riuniti, Ancona
Laid down :	April, 1931
Launched :	17 June, 1934
Completed :	Nov., 1934
Displacement :	1,641 tons *standard* (2,361 tons *full load*)
Dimensions :	333¼ (*w.l.*), 350 (*o.a.*) × 33¼ × 10 feet
Guns :	3—4·7 inch, 50 cal., 6—40 mm. 56 cal., 2—20 mm. 65 cal. M.G.
A/S weapons	1 Hedgehog, 4 D.C. Throwers
Mines :	Can carry 36 to 64
Machinery :	2 sets Parsons geared turbines. 2 shafts. S.H.P.: 44,000 = 33 kts. (32 kts. actual sea speed)
Boilers :	3, of 3-drum type
Oil fuel :	520 tons
Complement :	153

Notes.—Built under 1930 Programme. Fitted for minelaying. Reconstructed in 1949 with new lattice mast, several new radar sets, and British type navigating bridge. Being converted to anti-submarine escort. Pendant No. D 552.

Frigates.

2 New Construction. Rated as Escort Destroyers (*Cacciatorpediniere di Scorta.*)



CANOPO **CENTAURO**

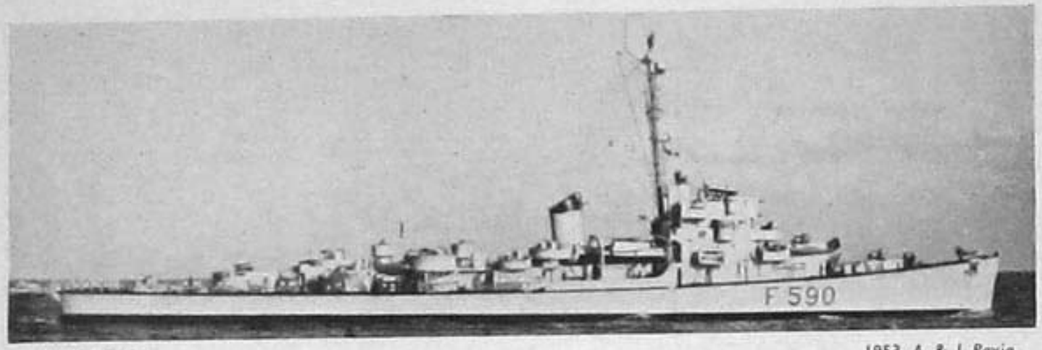
Displacement :	1,500 tons *standard* (1,925 tons *full load*)
Dimensions :	317⅜ × 38 × 11½ feet
Guns :	4—3 inch, 62 cal. AA. ; 6—40 mm. 70 cal. Bofors AA. ; 2—20 mm. AA.
Tubes :	3—21 inch
A/S weapons :	Bow A/S weapon. Depth charges
Machinery :	Geared steam turbines 2 shafts. S.H.P. : 22,000 = 26 kts.

Notes.—Formerly rated as escort vessels. One ordered Nov. 1950. Special A/S and medium AA. armament.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*To complete*
D 570	*Canopo*	Ansaldo, Leghorn	15 May 1952	Autumn 1954
D 571	*Centauro*	Cantieri Navali di Taranto	31 May, 1952	Late 1954

Note.—One escort (rated as *avviso-scorta*) of 1,500 tons is being built to the order of N.A.T.O.

3 "Altair" Class. Rated as Escort Vessels (*Avvisi Scorta.*)



ALDEBARAN. 1953, *A. & J. Pavia.*

ALDEBARAN (*ex-Thornhill*) **ALTAIR** (*ex-Gandy*) **ANDROMEDA** (*ex-Wesson*)

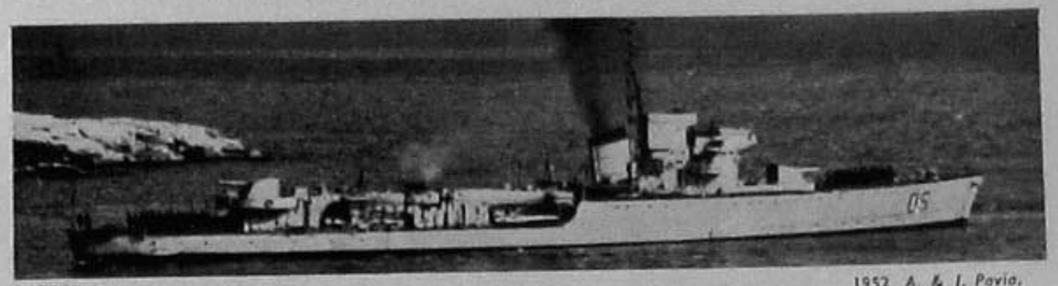
Displacement :	1,240 tons (1,900 tons *full load*)
Dimensions :	306 (*o.a.*) × 36 × 12 (*max.*) feet
Guns :	3—3 inch, 50 cal., 6—40 mm. Bofors AA., 18—20 mm. AA.
A/S weapons	1 Hedgehog, 8 D.C.T.
Machinery :	Diesel-electric. 2 shafts. B H.P. : 6,000 = 21 kts. designed (17 kts. max. sea speed)
Complement :	160

Notes.—These vessels were ceded by the United States under the Mutual Assistance Defense Program. Transferred 10 Jan., 1951.

Pendant Nos.	*Name*	*Builders*	*Launched*	*Completed*
F 590	*Aldebaran*	Federal S.B. & D.D. Co., Port Newark	30 Dec., 1943	1 Feb., 1944
F 591	*Altair*	Tampa S.B. Co.	12 Dec., 1943	7 Feb., 1944
F 592	*Andromeda*	Federal S.B. & D.D. Co., Port Newark	17 Oct., 1943	11 Nov., 1943

Frigates (*Escort Torpedo Boats*).

2 "Orsa" Class.



ORSA. 1952, *A. & J. Pavia.*

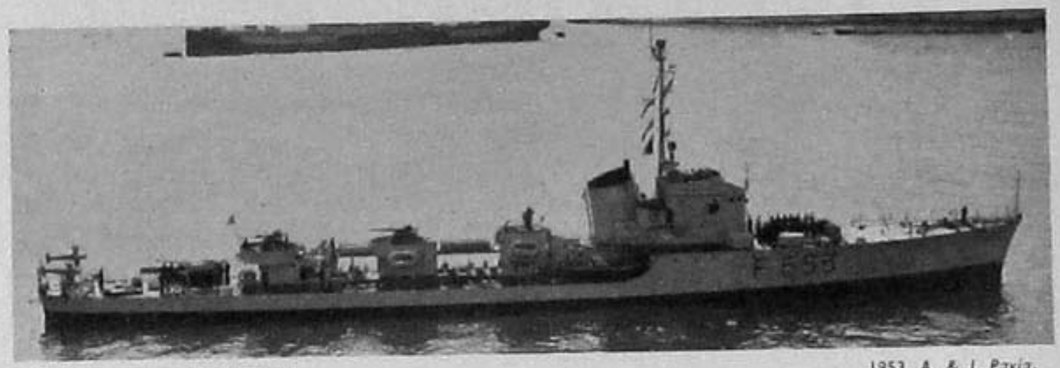
ORIONE **ORSA**

Displacement :	1,168 tons *standard* (1,698 tons *full load*)
Dimensions :	274¼ (*pp.*), 279 (*w.l.*), 292¼ (*o.a.*) × 31 × 11¼ (*max.*), 8 (*mean*) feet
Guns :	2—3·9 inch, 47 cal., 10—20 mm. A.A, 10 D.C.T.
Tubes :	4—17·7 inch
Mines :	Can carry 20
Machinery :	Tosi geared turbines. 2 shafts. S.H.P. : 16,000 = 28 kts. (accual sea speed 25 kts. *max.*
Boilers :	2, of 3 drum type
Oil fuel :	450 tons
Complement :	160

General Notes.—Ordered 1935. Fitted for minelaying. Were rated as Escort Vessels (*Avvisi Scorta*) when first completed, later as torpedo boats, and re-rated as Escort Vessels again in 1951. Alterations include radar house and larger forecastle (see photo).
Class Note.—Sister *Procione*, launched 1 Jan., 1937 and scuttled at La Spezia, 9 Sep., 1943, to avoid capture by Germans, is refloated.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 559	*Orione*	C.N.R., Palermo	Early 1935	21 Mar., 1937	1938
F 558	*Orsa*	C.N.R., Palermo	Early 1935	21 Apr., 1937	1938

4 "Libra" Class.



CLIO (as converted to frigate) 1953, *A. & J. Pavia.*

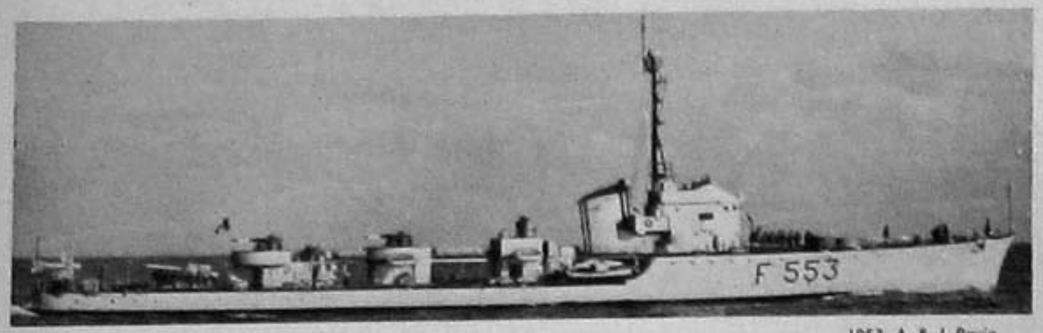
ARETUSA **CALLIOPE** **CLIO** **LIBRA**

Displacement :	1,030 tons *standard* (1,250 tons *full load*)
Dimensions :	259½ (*w.l.*), 280½ (*o.a.*) × 27 × 9 (*mean*) feet
Guns :	2—3·9 inch, 47 cal., 4—40 mm., 56 cal.
Tubes :	Removed
A/S weapons :	6 D.C. Throwers
Machinery :	2 sets Tosi geared turbines. 2 shafts. S.H.P. : 19,000 = 34 kts. Actual best speed : 30 kts.
Boilers :	2, of 3-drum type
Oil fuel :	207 tons
Complement :	110 (peacetime), 159 wartime.

Notes.—Fitted for minelaying. Converted to fast light A/S frigates 1951-53.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 556	*Aretusa*	Ansaldo, S.P.	Oct., 1936	6 Feb., 1938	May., 1938
F 551	*Calliope*	Ansaldo, S.P.	May, 1937	15 Apr., 1938	Nov., 1938
F 555	*Clio*	Ansaldo, S.P.	Dec., 1936	3 Apr., 1938	Oct., 1938
F 552	*Libra*	C.N.Q. Fiume	Dec., 1936	30 Oct., 1937	Jan., 1938

Frigates—*continued.*



CASSIOPEA.
1953, *A. & J. Pavia.*

CASSIOPEA **SAGITTARIO** **SIRIO**

Displacement :	1,000 tons *standard* (1,200 tons *full load*),
Dimensions :	269 × 27 × 9 feet
Guns :	2—3·9 inch, 47 cal., 4—40 mm. AA., 56 cal. (*Cassiopea* has only 1—3·9 inch aft)
Tubes :	Removed
A/S weapons :	1 Hedgehog (in *Cassiopea* only), 6 D.C. Throwers
Machinery :	2 Tosi geared turbines, 2 shafts. S.H.P. : 19,000 = 34 kts. (exceeded on trials)
Boilers :	2, of 3-drum type
Oil fuel :	193 to 211 tons
Complement :	110 (peacetime)

Notes.—Fitted for minelaying. Fast corvette type, formerly rated as torpedo boats. 2 more ships of this type, *Remus* and *Romulus*, were sold to Sweden in 1940. *Cassiopea* converted to A/S escort with 1 hedgehog forward, 1—3·9 inch aft, 4—40 mm., no tubes.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 553	*Cassiopea*	C. Tirreno, Riva Trigoso	Dec., 1935	22 Nov., 1936	Apr., 1937
F 557	*Sagittario*	C.N.Q. Fiume	Nov., 1935	21 Jun., 1936	Oct., 1936
F 554	*Sirio*	C.N.Q. Fiume	Nov., 1934	16 Nov., 1935	Feb., 1936

Old Destroyer.

1 "Da Recco" Class.

1953, *Official.*

NICOLOSO DA RECCO

Builders :	C.N.R. Ancona
Laid down :	Oct. 1927
Launched :	5 Jan., 1930
Completed :	May, 1930
Displacement :	1,591 tons *standard* (2,656 tons *full load*)
Dimensions :	353½ (o.a.), 351 (pp.) × 33½ × 16½ feet
Guns :	6—4·7 inch, 50 cal., 2—37 mm. AA., 9—20 mm. AA.
Tubes :	3—21 inch
Machinery :	2 Tosi turbines. 2 shafts. S.H.P. : 50,000 = 28 kts. (present best speed)
Boilers :	3, of 3-drum type
Oil fuel :	553 tons
Complement :	185

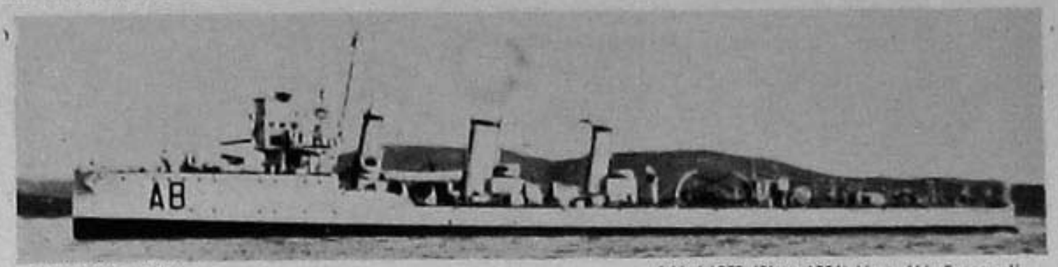
Notes.—Ordered 1926. Fitted for minelaying. Survivor of a once numerous class, named after navigators. Will probably be discarded soon. In bad condition. Used as accommodation ship. Pendant No. D 555.

Torpedo Boats.

GIACINTO CARINI **NICOLA FABRIZI**

Displacement :	645 tons (885 tons *full load*)
Dimensions :	238 (pp.) × 24 × 9¼ (*mean*) feet
Guns :	2—4 inch, 2—20 mm., 70 cal. (*Nicola Fabrizi* disarmed except for forecastle guns)
Machinery :	2 sets Tosi turbines. 2 shafts. S.H.P. : 15,500 = 30 kts. (now much less)
Boilers :	4 Thornycroft
Oil fuel :	150 tons
Complement :	100

Notes.—Both built by Odero. Launched in 1917 and 1918 respectively. Distinctive letters CA and FB, respectively.



GIUSEPPE ABBA
Added 1952 (Photo 1951) Lieut. Aldo Fraccaroli.

ANTONIO MOSTO **GIUSEPPE ABBA** **ROSOLINO PILO**

Displacement :	615 tons (885 tons *full load*)
Dimensions :	236¼ (pp.) × 24 × 8¼ (*mean*) feet
Guns :	2—4 inch, 6—20 mm. AA. (except *Giuseppe Abba*, 1—4 inch, 2—20 mm. AA.
Tubes :	4—18 inch (none in *Giuseppe Abba*)
Machinery :	2 sets Tosi turbines. 2 shafts. S.H.P. : 14,500 = 30 kts. (now much less, *Giuseppe Abba* 18 kts.)
Boilers :	4 Thornycroft
Oil fuel :	150 tons
Complement :	94

Notes.—*Antonio Mosto* built by Pattison, other two by Odero, S.P. All launched 1915. Distinctive letters MT, AB, PL.

Submarines.

VORTICE (*ex-P.V.2, ex-Vortice*)

Builders :	C.R.D.A. Monfalcone
Laid down :	3 Jan., 1942
Launched :	23 Feb., 1943
Completed :	21 June, 1943 (Reconditioned Dec., 1952)
Displacement :	745 tons *standard*, 905 tons *surface*, 1,068 tons *submerged*
Dimensions :	207½ × 22½ × 16 feet
Guns :	1—20 mm., 4 M.G.
Tubes :	6—21 inch
Machinery :	FIAT Diesel. 2 shafts. B.H.P. : 2,400 = 17 kts. *surface*, H.P. : 1,350 = 8 kts. *submerged*
Radius :	12,000 miles at 8 kts.
Complement :	52

Notes.—One of 8 boats of the "Flutto" Class which joined the Royal Italian Navy during the war. Laid up under the terms of the Peace Treaty. Reconditioning completed end of 1952.

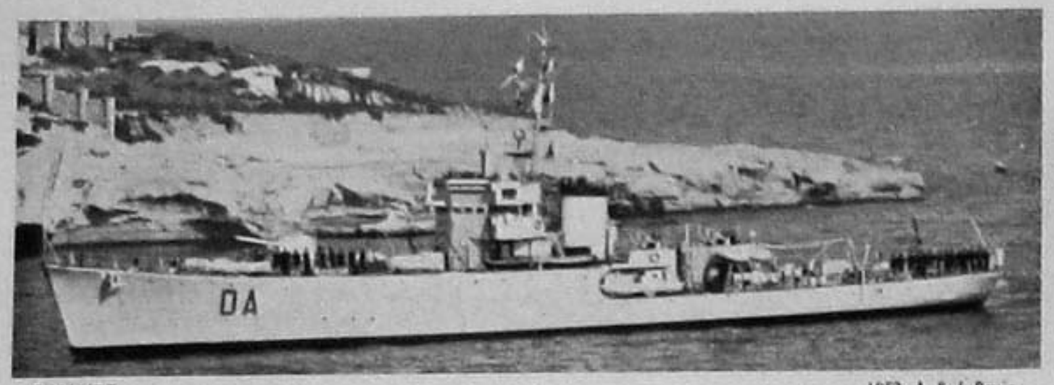
GIADA (*ex-P.V.1, ex-Giada*)

Builders :	C.R.D.A. Monfalcone
Laid down :	16 Oct., 1940
Launched :	10 July, 1941
Completed :	6 Dec., 1941 (Reconditioned Dec., 1942)
Displacement :	643 tons *standard*, 701 tons *surface*, 865 tons *submerged*
Dimensions :	197½ × 21½ × 15½ feet
Guns :	4—15·2 mm. M.G.
Tubes :	6—21 inch
Machinery :	2 Tosi Diesels. 2 shafts. B.H.P. : 1,350 = 14·7 kts. *surface*, Electric motors, H.P. : 800 = 7·9 kts. *submerged*
Complement :	54

Notes.—One of the 13 "Acciaio" Class boats which actually joined the Royal Italian Navy during the war. Laid up under the terms of the Peace Treaty. Reconditioning completed end of 1952.

Corvettes.

22 "Ape" Class.



DANAIDE. 1952, A. & J. Pavia.

MINERVA (all being similarly converted) *Added* 1952 (*Photo* 1951), *Lieut. Aldo Fraccaroli.*

***APE**	**CORMORANO**	**FARFALLA**	***GABBIANO**	**POMONA**
BAIONETTA	**CRISALIDE**	***FENICE**	***GRU**	***SCIMITARRA**
BOMBARDA	***DANAIDE**	***FLORA**	***IBIS**	***SFINGE**
***CHIMERA**	***DRIADE**	**FOLAGA**	**MINERVA**	**SIBILLA**
			PELLICANO	***URANIA**

Displacement :	515 to 642 tons (738 tons *full load*)
Dimensions :	192¾ (*w.l.*), 203 (*o.a.*) × 28¼ × 8¼ feet
Guns :	1—3·9 inch, 47 cal. forward, 2—40 mm., 56 cal. aft, 3—20 mm. AA., 70 cal. forward.
Tubes :	2—17·7 inch (see notes) 8 D.C.T.
Machinery :	Fiat Diesels, 2 shafts. B.H.P. : 3,500 = 18.5 kts. Actual best speed is 15.5 to 17 kts.

General Notes.—All launched 1942-48. Fitted for minesweeping. Only vessels attached to the Command Taining School (*) carry torpedo tubes. Altogether 60 of these vessels were ordered, but some were destroyed on slips, or construction abandoned.

Appearance Note.—Some have depth-charge equipment at stern. All are being modified with navigating bridge (as *Minerva*, see photo.)

Identification Notes.—Formerly identified by C pendant numbers, then by letters painted on bow, but now by F Nos. as given below.

F 567 *Ape*	F 547 *Crisalide*	F 572 *Flora*	F 561 *Ibis*	F 564 *Scimitarra*
Baionetta	F 563 *Danaide*	*Folaga*	F 562 *Minerva*	*Sfinge*
F 549 *Bombarda*	F 568 *Driade*	F 571 *Gabbiano*	*Pellicano*	F 565 *Sibilla*
F 569 *Chimera*	F 548 *Farfalla*	F 566 *Gry*	F 573 *Pomona*	F 570 *Urania*
Cormorano	*Fenice*			

Corvettes—*continued.*

New Construction : 8 new corvettes of 870 tons will be built in Italian yards to the order of the United States.

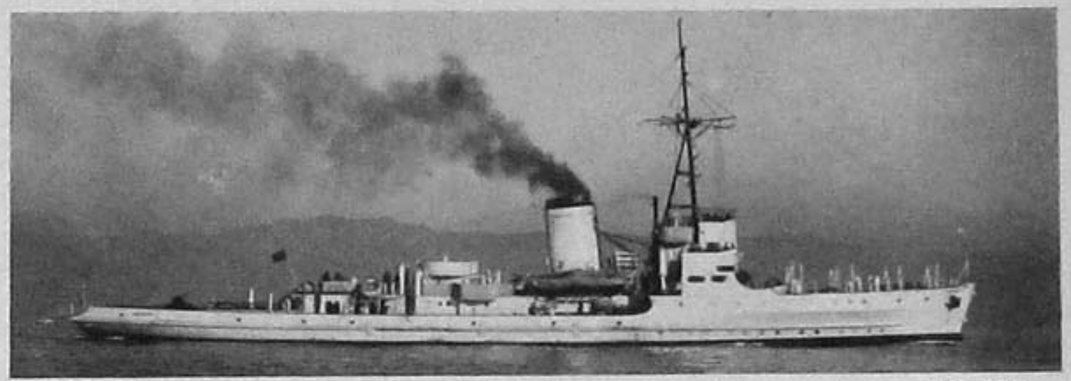
1952, *Lieut. Aldo Fraccaroli.*

ALABARDA (*ex-Eritrea, ex-Lorne*)

Launched :	2 Sept., 1943
Displacement :	1,262 tons
Dimensions :	235 (*o.a.*) × 35½ × 11½ (*max.*) feet
Guns :	1—3·9 inch (100 mm., 47 cal.), 4—37 mm. 54 cal

Notes.—Former British "Algerine" class minesweeper. First classed as colonial sloop, then rated as corvette, now as frigate. Pendant No. F 560.

Patrol Vessels.



ANTILOPE 1953, *Official.*

ANTILOPE (*ex-B1*) **DAINO** (*ex-B 2*) **GAZZELLA** (*ex-B 3*)

Displacement	535 tons *standard* (740 tons *full load*)
Dimensions :	203½ (*pp.*), 219½ (*o.a.*) × 27½ × 8½ feet
Guns :	1—3·9 inch, 47 cal., 3—37 mm. AA., 54 cal.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,150 = 17 kts.
Boilers :	2 Schulz-Marine
Coal :	142 tons

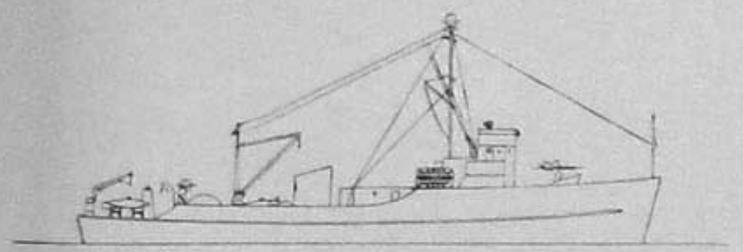
Notes.—Ex-German coal-burning minesweepers. Acquired July 20, 1949 when they were classed as "Navi Ausiliarie" (Auxiliary Ships) but subsequently converted to burn oil fuel and classed as "Navi Pattuglia" (Patrol ships). Distinctive letters painted on bows : *Antilope*, AI ; *Daino*, DI ; *Gazzella*, GA.

209R

Magnetic Minesweepers (*Dragamine Magnetici*).

New Construction.

12 "Flower" Class.



Displacement :	300 tons
Dimensions :	150 × — × — feet
Guns :	1—3 inch

Note.—Magnetic type minesweepers under construction. Ordered 1952.

Trawler Minesweepers (*Dragamine*).

16 "301" Class.

DR 301 — 1946, *London Studio*

DR 301 (*ex-Burro*)
DR 302 (*ex-Cumbrae*)
DR 303 (*ex-Unst*)
DR 304 (*ex-Staffa*)
DR 305 (*ex-Filla*)
DR 306 (*ex-Egilsay*)
DR 307 (*ex-Minuet*)
DR 308 (*ex-Twostep*)
DR 309 (*ex-Grain*)
DR 310 (*ex-Othello*)
DR 311 (*ex-Mousa*)
DR 312 (*ex-Gavotte*)
DR 313 (*ex-Foula*)
DR 314 (*ex-Ensay*)
DR 315 (*ex-Stroma*)
DR 316 (*ex-Hornpipe*)

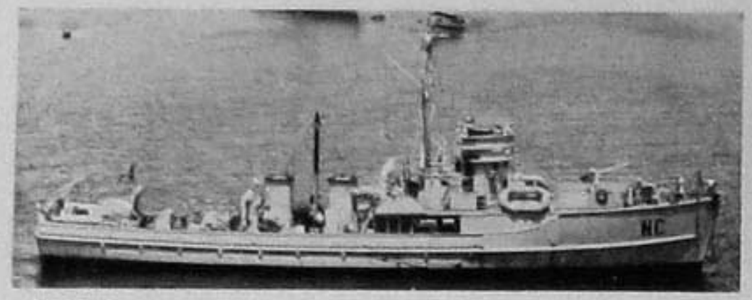
Displacement :	545 tons (770 tons *full load*)
Dimensions :	150 (*pp.*), 164 (*o.a.*) × 27½ × 11 feet
Guns :	1—3 inch, 2—20 mm. AA.
Machinery :	Triple expansion. I.H.P. : 950 = 12 kts.

Note.—All Admiralty design trawlers of "Isles", "Dance" and "Shakespearian" classes on loan from Great Britain.

Motor Minesweepers (*Dragamine*).

17 "401" Class.

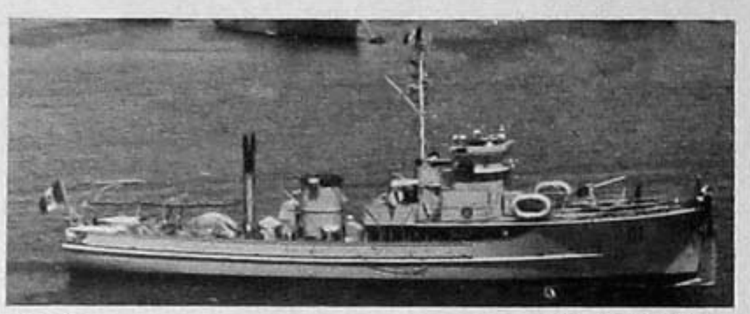
6 "Anemone" Type (Two funnels).



NARCISO — 1952, *A. & J. Pavia.*

DR 409 ANEMONE (*ex-BYMS 2009*)
DR 410 BIANCOSPINO (*ex-BYMS 2012*)
DR 412 GERANIO (*ex-BYMS 2014*)
DR 413 MUGHETTO (*ex-BYMS 2023*)
DR 414 NARCISO (*ex-BYMS 2024*)
DR 415 OLEANDRO (*ex-BYMS 2027*)

11 "Azalea" Type (One funnel).



DALIA — 1953, *A. & J. Pavia.*

DR 401 AZALEA (*ex-BYMS 2142*)
DR 402 BEGONIA (*ex-BYMS 2073*)
DR 403 DALIA (*ex-BYMS 2141*)
DR 411 FIORDALISO (*ex-BYMS 2277*)
DR 404 GARDENIA (*ex-BYMS 2150*)
DR 417 GLADIOLO
DR 405 MAGNOLIA (*ex-BYMS 2206*)
DR 406 ORCHIDEA (*ex-BYMS 2037*)
DR 407 PRIMULA (*ex-BYMS 2278*)
DR 416 TULIPANO (*ex-BYMS 2194*)
DR 408 VERBENA (*ex-BYMS 2280*)

Displacement :	290 tons (335 tons *full load*)
Dimensions :	136 (*o.a.*) × 24½ × 6 feet
Guns :	1—3 inch, 2—20 mm. AA.
Machinery :	G.M. Diesel. B.H.P. : 1,000 = 13 kts.
Fuel :	16 tons

General Notes.—Acquired from U.S. Navy in July, 1947.

Appearance Notes.—Some, but not all, have distinctive letters as follows : AE *Anemone*, AZ *Azalea*, BG *Begonia*, BP *Biancospino*, DL *Dalia*, FD *Fiordaliso*, GN *Gardenia*, GO *Geranio*, ML *Magnolia*, MU *Mughetto*, NC *Narciso*, OL *Oleandro*, PU *Primula*, TP *Tulipano*, VB *Verbena*.

Motor Minesweepers—*continued.*

(*Dragamine di Vigilanza*).

16 "101" Class

124, 121, 111. — 1951, *Lieut. Aldo Fraccaroli.*

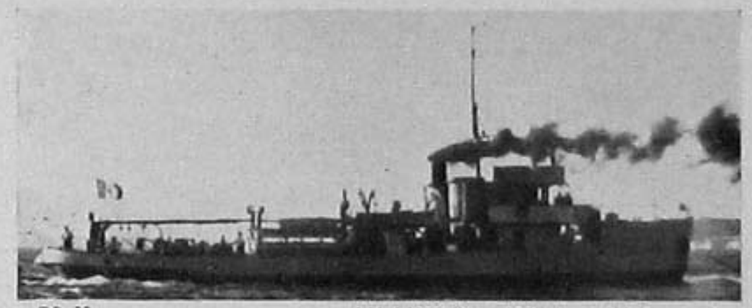
DV 111 (*ex-102*)
DV 112 (*ex-103*)
DV 113
DV 114 (*ex-104*)
DV 115 (*ex-105*)
DV 116 (*ex-149*)
DV 121 (*ex-131*)
DV 122 (*ex-132*)
DV 123 (*ex-133*)
DV 124 (*ex-134*)
DV 125 (*ex-148*)
DV 131
DV 132
DV 133
DV 134
DV 135

Displacement:	101 tons
Dimensions :	111½ × 19 × 4½ feet
Guns :	2—20 mm. AA., 70 cal.
Machinery :	2 Petrol motors, (except *DV 113* and *DV 116*, 2 Diesel motors B.H.P. : 2,000). 2 shafts. B.H.P. : 2,3000 = 18 kts. (best speed now 16 kts.)

Notes.—All launched 1944-45. Used for coastal patrols.

Coastal Minesweepers (*Dragamine*).

New Construction : 7 coastal minesweepers of 375 tons and 20 harbour minesweepers of 142 tons are building in Italian yards for the Italian Fleet to the order of the N.A.T.O.



DR 32 — *Added 1952 (Photo 1951) Lieut. Aldo Fraccaroli.*

DR 20 **DR 32** **DR 34** **DR 38** **DR 40** **DR 41**

Displacement :	156 tons
Dimensions :	116 × 19 × 6 feet
Guns :	1—3 inch.
Machinery :	Triple expansion. I.H.P. : 750 = 10 kts.
Boiler :	1 Thornycroft (coal-fired)

Note.—All launched 1919-20.

Motor Torpedo Boats.

MTB 814 — 1953, *A. & J. Pavia.*

GIS 811	**GIS 813**	**GIS 821**	**GIS 823**
GIS 812	**GIS 814**	**GIS 822**	**GIS 824**

Guns : 5—20 mm.
Torpedoes : 2 (no tubes)
Speed : 42 kts.

Note.—All Vosper type.

MTB 843 — 1953, *Official.*

GIS 831	**GIS 833**	**GIS 841**	**GIS 843**	**GIS 851**	**GIS 853**
GIS 832	**GIS 834**	**GIS 842**	**GIS 844**	**GIS 852**	**GIS 854**

Guns : 1—37 mm., 54 cal., 4—20 mm., 65—70 cal.
Torpedoes : 2 (no tubes)
Speed : 40 kts.

Note.—All of American construction. Higgins type. Refitted in Italy 1949-53.

MV 611. — 1951, *Lieut. Aldo Fraccaroli.*

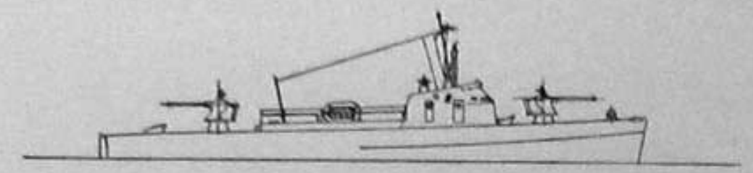
MV 611	**MV 613**	**MV 615**	**MV 617**
MV 612	**MV 614**	**MV 616**	**MV 618**

Guns : 4 or 5—20 mm. M.G.
Tubes : Some have 2—21 inch

Notes.—Ex-MS (*Motosiluronte* = motor torpedo boats)

Motor Gunboats (*Motocannoniera*).

4 New Construction



Displacement : 150 tons
Dimensions : Length 125 feet
Guns : 2—40 mm.
Speed : 40 kts. (accelerating from 20 to full speed very rapidly).

Notes.—Authorised Nov. 1950. One ordered from C.R.D.A. Monfalcone Yard, 1952.

Coastal Submarine Chasers (*Vedette Anti-Sommergibili*).

New Construction.

Displacement : 300 tons
Guns : 4—40 mm. AA.
A/S weapons : Squids

Notes.—One ordered 1952. A number of coastal submarine chasers are projected.

VAS 726. — 1953, *Italian Navy Official.*

VAS 712 (ex-204)	**VAS 714** (ex-218)	**VAS 723** (ex-235)	**VAS 726** (ex-241)
VAS 713 (ex-211)	**VAS 722** (ex-233)	**VAS 724** (ex-237)	

Displacement : 69 tons
Dimensions : 92 × 15½ × 4½ feet
Guns : 3—20 mm. AA., 4 M.G., 1 D.C.T.
Torpedoes : 2—18 inch
Machinery : 1 Isotta-Fraschini motor. B.H.P. : 1,000. 2 Carraro motors each B.H.P. : 300. Aggregate 1,600 B.H.P.=19 kts.
Complement : 26

Note.—All launched 1942. *VAS 711, VAS 715, VAS 721,* and *VAS 725* removed from the effective list 1953.

Support Gunboats (*Cannoniere d'appoggio*).

(Ex-U.S. Landing Ships, Support/Large).

SPINONE. — *Added* 1952 (*Photo* 1951) *Lieut. Aldo Fraccaroli.*

ALANO (ex-LSSL 34)	**MASTINO** (ex-LSSL 62)	**SEGUGIO** (ex-LSSL 64)
BRACCO (ex-LSSL 38)	**MOLOSSO** (ex-LSSL 63)	**SPINONE** (ex-LSSL 118)

Displacement : 227 tons (387 tons *full load*)
Dimensions : 157½ × 26½ × 5½ feet
Guns : 5—40 mm., 56 cal. ; 4—20 mm. ; 4—12·7 mm.
Machinery : 8 Gray Marine Diesels 2 shafts. B.H.P. : 900 = 15 kts.
Complement : 70

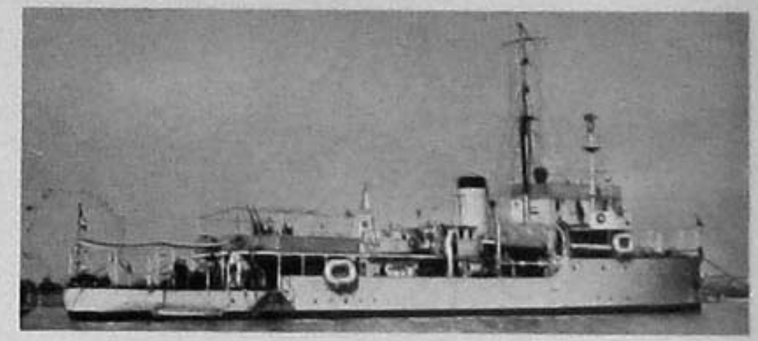
Notes.—Transferred from U.S.A. 25 July, 1951 under the Mutual Defense Assistance Program. Formerly designated LCIs (Landing Craft Infantry). Distinguished by letters AO, BR, MA, MS, SE, SP, respectively. 10 landing craft of 61 tons are being built to the order of N.A.T.O.

Surveying Vessels (*Navi Idrografiche*).

STAFFETTA (ex-*Elbano*)

Launched : 1941
Displacement : 1,020 tons (1,280 tons *full load*)
Dimensions : 205 (*o.a.*) × 33 × 14½ feet

Note.—Former British "Flower" class corvette, converted for hydrographic duties.



1953, *Official.*

AZIO

Builders : C.N.R., Ancona
Launched : 4 May, 1927.

Displacement : 615 tons
Dimensions : 204 × 28½ × 8½ feet
Guns : 1—4 inch, 45 cal., 4—20 m.m. AA. 65 cal.
Machinery : Triple expansion. 2 shafts. I.H.P. : 1,500 = 15 kts.
Boilers : 2 watertube. Oil fuel.

Repair Ship (*Navi Officina*).

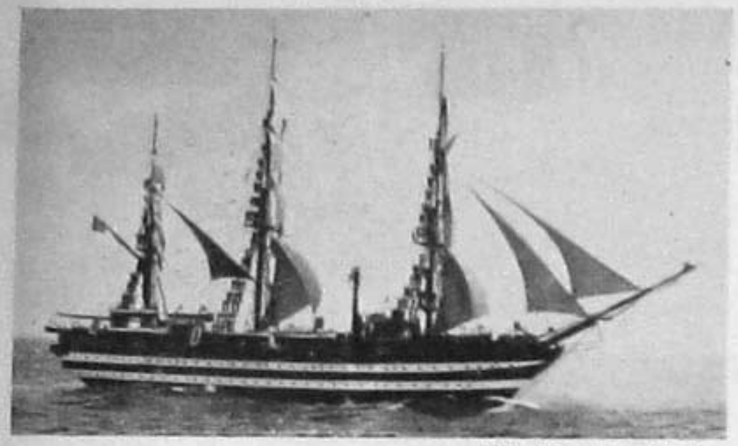
Added 1952 (*Photo* 1951) *Lieut. Aldo Fraccaroli.*

ANTONIO PACINOTTI (*ex-Città di Sassari*)

Launched :	1922
Displacement :	2,720 tons
Dimensions :	288½ × 36 × 15 feet.
Guns :	4—3 inch AA.
Machinery :	Orlando-Zoelly geared turbines, 2 shafts. S.H.P. : 7,500 = 19 kts.
Boilers :	4 cylindrical oil-fired

Note.—Laid up.

Training Ships (*Navi Scuola*).



1951, *Italian Navy, Official.*

AMERIGO VESPUCCI

Built :	Castellammare
Launched :	22 March, 1930
Displacement :	3,543 tons
Dimensions :	229½ (330 o.o.) × 51 × 22 feet
Machinery :	Two Fiat Diesels, with electric drive to 2 Marelli motors. 1 shaft. H.P. : 1,900 = 10·5 kts.
Complement :	400 + 150 midshipmen

Notes.—Sail area : 22,600 sq. ft. Hull, masts and yards are of steel. Loud speakers and echo-sounding gear are included in equipment.

PALINURO (*ex-Commandant Louis Richard*)

Displacement :	325 tons
Dimensions :	223 × 320 × 18½ feet
Machinery :	Diesel. 1 shaft. B.H.P. : 200 = 7 kts.

Notes.—Brigantine. Ex-French vessel, launched in 1920.

Transports (*Navi Trasporto*).

Added 1952 (*Photo* 1951) *Lieut. Aldo Fraccaroli.*

STROMBOLI

Builders :	Odero-Terni-Orlando yard, La Spezia
Completed :	1948
Displacement :	6,003 tons
Dimensions :	334½ (o.o.) × 46 × 21½ feet
Guns :	1—3·9 inch (aft), 2—37 mm. 54 cal. (forward)
Machinery:	One set double reduction geared turbines. S.H.P 3,700 = 14·75 kts.
Boilers :	3 water tube. Oil fuel.

Notes.—Also employed as a depot and experimental ship, and simulates an aircraft carrier in manoeuvres. Flagship of 1st Divisione.

1950, *Italian Navy, Official*

TARANTOLA

Displacement :	512 tons
Machinery :	Tosi Diesel. B.H.P. : 380 = 10·5 kts.

1949, *Official.*

MONTEGRAPPA (*ex-KT 10*)

Launched :	15 May, 1943
Displacement :	700 tons
Dimensions :	203½ × 36 × 4 feet
Machinery :	Triple expansion with l.p. exhaust turbine. I.H.P. : 2,400 = 13·5 kts.
Coal :	150 tons

Notes.—Formerly in German Navy. Transport *Cherso* was discarded in 1953.

Diving Tenders.

NEREO

Launched :	1948
Displacement :	1,200 tons
Dimensions :	157½ × 32½ × 13 feet
Machinery :	Triple expansion. 1 shaft. I.H.P. : 1,000 = 8 kts.

ERCOLE

Launched :	1953
Displacement :	1,000 tons
Dimensions :	180½ × 25½ × 12 feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,900 = 13 kts.

Oilers (*Navi Cisterna per Nafta*).

1951, *Italian Navy, Official.*

URANO

Builders :	Deutsche Werke, Kiel
Launched	1922
Displacement :	10,550 tons
Dimensions :	414½ × 54 × 23½ feet
Machinery :	Diesels. 2 shafts. H.P. : 2,000 = 11 kts.
Cargo :	8,000 tons

Note.—Built under First World War Reparations account.

BRENNERO

Builders :	Riva-Trigoso, Genova
Launched :	1921
Displacement :	10,500 tons
Dimensions	328 × 59 × 24 feet
Machinery:	Triple expansion. 1 shaft. I.H.P. : 2,600 = 10 kts.
Cargo :	7,000 tons

PROMETEO (*ex-Ostia*)

Builders :	Stab. Tecnico Triestino
Launched :	1920
Displacement :	1,096 tons
Dimensions :	179½ × 26½ × 11 feet
Guns :	2—3 inch AA.
Machinery :	Triple expansion. 1 shaft. H.P. : 600 = 9 kts.
Boiler :	1 Yarrow oil-fired

NETTUNO

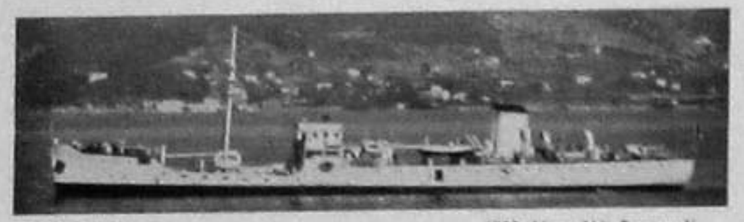
Builders :	Cant. Nav. Riuniti, Palermo
Launched :	1916
Displacement :	9,540 tons
Dimensions :	416½ × 51½ × 24 feet
Guns :	3—4·7 inch, 2—3 inch A.A
Machinery :	Triple expansion. 2 shafts I.H.P. : 4,200 = 14 kts.
Boilers :	4 Yarrow oil-fired
Cargo capacity :	6,000 tons

Water Carriers (*Navi Cisterna per Acqua*).

ADIGE (ex-YW 92) **ISONZO** (ex-YW 77) **TANARO** (ex-YW 99)
FLEGETONTE (ex-YW 95) **TICINO** (ex-YW 79)

Displacement	1,470 tons
Machinery :	2 Diesels. H.P. : 315 = 8 kts
Water capacity	850 tons

Note.—Ex-U.S. Army.



VOLTURNO. 1953, *Lieut. Aldo Fraccaroli.*

PO **VOLTURNO**

Displacement :	3,336 tons
Dimensions :	265½ × 38½ × 16½ feet
Guns :	2—4 inch, 35 cal., 4—13·2 M.G. (*Po*) 1—4·7 inch, 45 cal., 4—20 mm. AA. (*Volturno*)
Machinery :	Triple expansion. I.H.P. : 1,700 = 11·5 kts.
Boilers :	Oil-fired watertube
Oil fuel:	226 tons
Cargo capacity:	2,200 tons

Notes.—*Po* launched by Cant. Nav. Riuniti, Ancona, 21 Dec., 1936. *Volturno* was built by Cantieri del Tirreno, Riva Trigoso, 1936-37, and rebuilding completed in 1951.

SESIA

Builders :	Adriatico
Launched :	1933
Displacement :	1,050 tons
Dimensions :	213½ × 33 × 11½ feet
Guns :	4 M.G. Fitted for minelaying
Machinery :	Fiat Diesels. 2 shafts. B.H.P. : 600 = 9·5 kts.

METAURO

Builders :	Quarnaro.
Launched :	1933
Displacement :	592 tons
Dimensions :	119 × 26½ × 10½ feet
Machinery :	Tosi Diesels. B.H.P. : 400 = 9 kts.

ARNO

Builders :	Odero-Terni-Orlando, La Spezia
Launched :	1929
Displacement :	634 tons
Dimensions :	138½ × 26 × 10 feet
Machinery :	1 Fiat Diesel. B.H.P. : 350 = 9 kts.

MINCIO

Built :	Venice
Launched :	1929
Displacement :	645 tons
Dimensions :	138½ × 26½ × 10 feet
Machinery :	Tosi Diesels. B.H.P. : 350 = 9 kts.

IDRIA **TIMAVO** **VIPPACCO**

Displacement :	265 tons
Machinery :	1 Diesel Tosi. B.H.P. : 200 = 8 kts

Note.—All built by C.O.M.I., Venezia, 1921-26.

FRIGIDO (*ex-Fukuju Maru*)

Built :	Osaka
Launched :	1912
Displacement :	398 tons
Dimensions :	116½ × 21½ × 10 feet
Guns :	2 M.G.
Machinery :	Triple expansion. I.H.P. : 221 = 9 kts.
Boiler :	1 cylindrical

Note.—Purchased 1916.

Water Carriers—*continued.*

1953, *Lieut. Aldo Fraccaroli.*

DALMAZIA

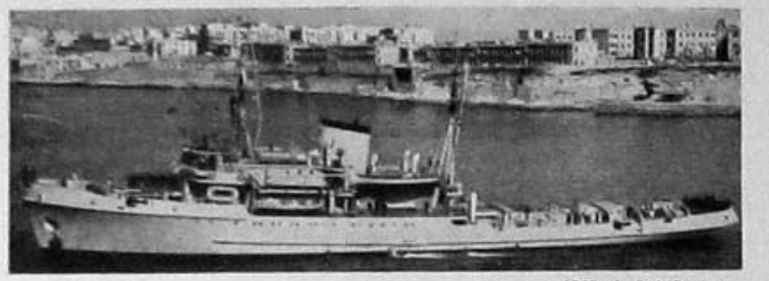
Built :	Quarnaro Yard, Fiume
Launched :	1922
Displacement :	2,900 tons
Dimensions :	260 × 32½ × 15½ feet
Guns :	1—4·7 inch, 1—3 inch AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,450 = 10 kts.
Boilers :	2 Thornycroft oil-fired
Cargo :	1,800 tons

OFANTO **ORISTANO**

Displacement:	250 tons
Machinery :	1 Triple expansion. I.H.P. : 165 = 6 kts.

Note.—Both built by S.E.B., Riva Trigoso, 1913-14.

Rescue and Salvage Ship.



1952, *A. & J. Pavia.*

PROTEO (*ex-Perseo, ex-Proteo*)

Builders :	Cantieri Navali Riuniti, Ancona (see notes)
Displacement :	1,727 tons (2,147 tons *full load*)
Dimensions :	248 × 38 × 21½ feet
Guns :	1—3·9 inch AA., 2—20 mm.
Machinery :	Diesel. 2 shafts. B.H.P. : 4,800 = 16 kts.
Radius :	7,500 miles at 13 kts.

Notes.—Laid down at Ancona in 1943. Suspended in 1944. Seized by Germans and transferred to Trieste. Construction recommenced at Cantiere Navali, Ancona, in 1949.

Cable Ship.

VESUVIO

Notes.—Completing as a cable ship. Same type as *Stromboli*. *Rampino* discarded 1953

Lighthouse Tender (*Nave addetta al Servizio Fari*).

BUFFOLUTO

Launched :	1924
Displacement :	915 tons
Dimensions :	172½ (pp.), 184½ (*o.a.*) × 29½ × 11 feet
Machinery :	Triple expansion. I.H.P. : 1,400 = 11 kts
Boilers :	2 Thornycroft

Note.—Sister ship, *Panigaglia*, blew up in July, 1947.

Netlayers.

New Construction : 2 netlayers of 400 tons are building to the order of N.A.T.O.

Tugs (*Rimorchiatori*).

AUSONIA **PANARIA**

Displacement :	240 tons

TIFEO (U.S. built)

Displacement :	450 tons

CICLONE **TITANO**

Displacement :	1,200 tons
Dimensions :	157½ × 32½ × 13 feet
Machinery :	Triple expansion. 1 shaft. I.H.P. : 1,000 = 8 kts.

Note.—All above launched in 1948.

MISENO **MONTE CRISTO**

Displacement :	285 tons

Note.—Former U.S. Navy tugs.

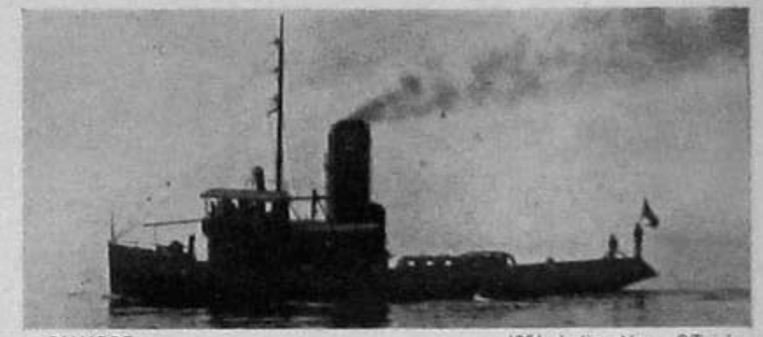
GAGLIARDO **ROBUSTO**

Displacement :	389 tons
Machinery :	I.H.P. : 1,000 = 12 kts.

Note.—Both launched 1939.

PORTO EMPEDOCLE

Launched :	1914
Displacement :	330 tons
Guns :	1—3 inch
Machinery :	I.H.P. : 500 = 11 kts.



SALVORE. 1951, *Italian Navy, Official.*

PORTO FOSSONE **PORTO QUIETO** **PORTO TORRES**
PORTO PISANO **PORTO RECANATI** **SALVORE**

Displacement :	226 tons
Dimensions :	88½ × 22 × 10 feet
Guns :	1—3 inch
Machinery :	I.H.P. : 600 = 11 kts.

Note.—All launched 1936-37.

ATLETA (ex-LT 152) **COLOSSO** (ex-LT 214) **FORTE** (ex-LT 159) **TENACE** (ex-LT 154)

Displacement :	525 tons
Machinery :	2 Diesels. H.P. : 690 = 11 kts.

TINO

Launched :	1931
Displacement :	270 tons

ATLANTE

Launched :	1928
Displacement :	355 tons
Guns :	1—3 inch
Machinery :	I.H.P. : 900 = 11 kts.

Note.—Sunk by collision in harbour at Genoa in Jan., 1948, but later salvaged.

JAPAN

NATIONAL SAFETY AGENCY

MARITIME SAFETY BOARD — COASTAL SECURITY FORCE

Maritime Safety Agency

Yonekichi Yanagisaira, *Director General*

Projected Construction

2 high speed defence vessels of 1,500 tons with a speed of over 20 kts.
3 high speed defence vessels of 7,000 to 1,000 tons
6 minesweepers in replacement of old vessels.
Some high speed patrol boats of 50 to 60 tons.
Total about 15 ships at estimated cost of Y12,000,000,000.

Frigates.

18 " Tree " Class (U.S. PF Type).

KASHI (*ex-U.S.S. Pasco, PF 6*)
KAYA (*ex-U.S.S. San Pedro, PF 37*)
KUSU (*ex-U.S.S. Ogden, PF 39*)
MATSU (*ex-U.S.S. Charlottesville, PF 25*)
MOMI (*ex-U.S.S. Poughkeepsie, PF 26*)
NARA (*ex-U.S.S. Mochias, PF 53*)
NIRE (*ex-U.S.S. Sandusky, PF 54*)
SUGI (*ex-U.S.S. Coronado, PF 38*)
UMI (*ex-U.S.S. Allertown, PF 32*)
(*ex-U.S.S. Albuquerque, PF 7*)
(*ex-U.S.S. Bayonne, PF 21*)
(*ex-U.S.S. Bath, PF 55*)
(*ex-U.S.S. Burlington, PF 51*)
(*ex-U.S.S. Carson City, PF 50*)
(*ex-U.S.S. Evansville, PF 70*)
(*ex-U.S.S. Everett, PF 8*)
(*ex-U.S.S. Gloucester, PF 22*)
(*ex-U.S.S. Long Beach, PF 34*)

Displacement :	1,430 tons (2,100 tons *full load*)
Dimensions :	304 (*o.a.*) × 37½ × 13½ (*max.*) feet
Guns :	3—3 inch, 50 cal. d.p., 10—40 mm. and 20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Complement :	180

Notes.—Of similar design to British frigates of " River " class. All launched 1943. Transferred from U.S.A. in 1953. Named ships are attached to the Japanese Coastal Security Forces, others are at present in inactive status. *Kashi, Kusu* (flag), *Matsu, Momi, Nara* and *Sugi* (flag) officially handed over to Marine Security Guards from U.S. Navy 14 Jan. 1953 at Yokosuka. *Sugi* and *Matsu* constitute 1st Flotilla, remainder 2nd Flotilla. All named after trees like former destroyers.

Treaty Terms.

In 1947-48 a fleet of 125 vessels, including a number of ex-minesweepers and other war-built craft, was formed to police Japanese waters for fishery protection, anti-smuggling, patrol and rescue duties.
Displacements are limited to 1,500 tons and speeds to 15 kts. Total tonnage is limited to 50,000.
Personnel is limited to 10,000 officers and men.
The organisation to which Japanese so-called " Coast Guard " vessels belong is the " Maritime Safety Agency " (MSA). These vessels fly the MSA flag, of blue with many pointed white star in the centre.

New Naval Programme.

New naval programme officially approved in Tokyo, Dec. 1951, aims for a force of up to 300 destroyer type vessels. Some will be built in Japanese shipyards and some, it is hoped, will be borrowed or leased from the United States. Patrol vessels of over 270 tons displacement will be armed with 3 inch guns.

Mercantile Marine.

Lloyd's Register appendix, 1953 · 1,587 vessels of 2,787,163 tons *gross*.

Gunboats.

54 " Flower " Class (U.S. LSSL Type).

1953, *U.S. Navy, Official.*

AKANE (*ex-U.S.S. LSSL 100*)
AOI (*ex-U.S.S. LSSL 98*)
AYAME (*ex-U.S.S. LSSL 115*)
BARA (*ex-U.S.S. LSSL 78*)
FUJI (*ex-U.S.S. LSSL 75*)
FUYO (*ex-U.S.S. LSSL 100*)
HAGI (*ex-U.S.S. LSSL 130*)
HAMAGIKU (*ex-U.S.S. LSSL 87*)
ISOGIKU (*ex-U.S.S. LSSL 106*)
KESHI (*ex-U.S.S. LSSL 11*)
KIKU (*ex-U.S.S. LSSL 57*)
NOGIKU (*ex-U.S.S. LSSL 22*)
RAN (*ex-U.S.S. LSSL 104*)
SUMIRE (*ex-U.S.S. LSSL 14*)
YAMAGIKU (*ex-U.S.S. LSSL 82*)
YURI (*ex-U.S.S. LSSL 107*)
(*ex-U.S.S. LSSL 12*)
(*ex-U.S.S. LSSL 13*)
(*ex-U.S.S. LSSL 18*)
(*ex-U.S.S. LSSL 20*)
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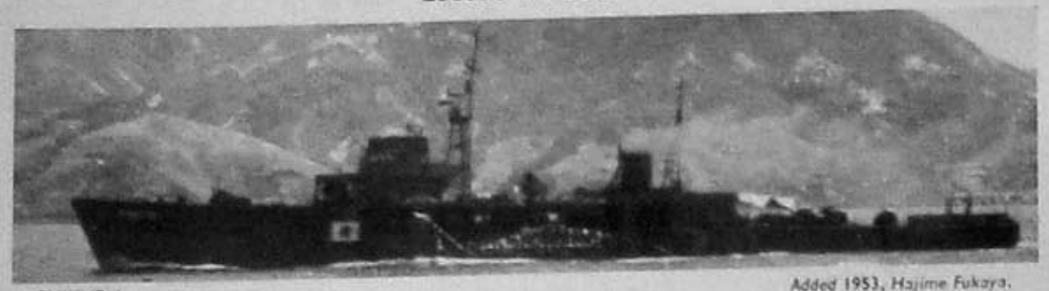
(*ex-U.S.S. LSSL 95*)
(*ex-U.S.S. LSSL 96*)
(*ex-U.S.S. LSSL 101*)
(*ex-U.S.S. LSSL 102*)
(*ex-U.S.S. LSSL 103*)
(*ex-U.S.S. LSSL 105*)
(*ex-U.S.S. LSSL 109*)
(*ex-U.S.S. LSSL 114*)
(*ex-U.S.S. LSSL 116*)
(*ex-U.S.S. LSSL 119*)
(*ex-U.S.S. LSSL 120*)
(*ex-U.S.S. LSSL 126*)
(*ex-U.S.S. LSSL 129*)

Displacement :	227 tons (383 tons *full load*)
Dimensions :	158½ (*o.a.*) × 23½ × 5½ (*max.*) feet
Guns :	1—3 inch, 50 cal., 4—40 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,600 = 14·5 kts.
Complement :	73

Notes.—Former American LSSLs (Landing Ships Support, Large) Type transferred from U.S.A. in 1953. *Hagi, Kiku, Ran, Yuri* officially handed over to Marine Security Guards from U.S. Navy at Yokosuka 14 Jan. 1953. Constitutes 11th Flotilla. Named after flowers. Named ships attached to the Japanese Coastal Security Force. Others are at present in inactive status.

JAPAN—Maritime Safety Agency Escort and Patrol Vessels

Escort Vessels.



CHIKUBU. *Added 1953, Hajime Fukaya.*

SHIGA

Displacement :	1,020 tons
Speed :	19·5 kts.

Note.—In reserve. Belongs to and used by Home Affairs Department.

CHIKUBU **IKUNA** **SHINNAN** **UKURU**

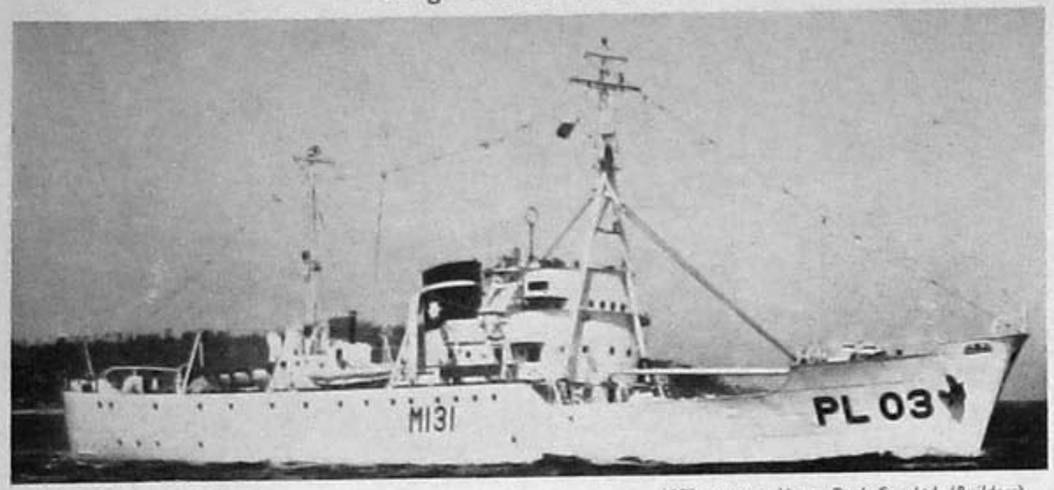
Displacement :	940 tons *standard* (1,020 tons *trial*)
Dimensions :	258½ × 30 (*o.a.*) × 10 feet
Machinery :	Diesel, 2 shafts. B.H.P. : 4,200 = 19·5 kts.
Radius :	5,000 miles at 16 kts.

Notes.—All four employed as Weather Ships. "Ukuru" class. Wartime armament was 3—4·7 inch, 16—25 mm. AA., 1—90 mm. mortar, 120 D.C. Belong to Home Affairs Department.

ISHIKARI

Note.—Rescue ship of destroyer escort type operated by Japanese Coast Guard.

Large Patrol Vessels.



MUROTO (note bridge). *1953, courtesy Uraga Dock Co., Ltd. (Builders)*

DAIO PL 02 **MUROTO** PL 03

Displacement :	750 tons *standard*, 840 tons *normal*
Dimensions :	182 (*pp.*), 200 (*o.a.*) × 30½ × 10½ feet
Machinery :	2 sets 4 cycle single acting diesels, 270 r.p.m. B.H.P. : 1,500 = 15·37 kts. (trials, 12 kts. service

Notes.—*Muroto* built by Uraga Dock Company Limited, Tokyo, keel laid 16 Aug. 1949, launched 5 Dec. 1949, delivered 20 Mar. 1950 to Maritime Safety Agency. Rated as Large Patrol Vessels. Vertical tubular donkey boiler, three generators, wireless, radar, direction finder, echo-sounder, etc.; novel streamlined bridge wings. SCAJAP hull number M 131 removed after signing of Peace Treaty.

MIURA PL 01

Displacement :	680 tons *standard*, 879 tons *normal*
Dimensions :	160½ (*pp.*), 175½ (*o.a.*) × 31½ × 11½ feet
Machinery :	Reciprocating. I.H.P. : 2,200 = 12 kts.
Boilers :	2

Note.—Former naval tug. Completed 5 Dec. 1944.

Medium Patrol Vessels.
22 "Reibun" Class.

NOTO. *1953, Hajime Fukaya.*

AWAJI	PM 01	**HACHIJO**	PM 08	**MIKURA**	PM 15
MIYAKE	PM 02	**AMAKUSA**	PM 09	**KOSHIKI**	PM 16
SADO	PM 03	**OKUSHIRI**	PM 10	**HIRADO**	PM 17
REIBUN	PM 04	**KUSAGAKI**	PM 11	**CHIBURI**	PM 18
IKI	PM 05	**RISHIRI**	PM 12	**KUROKAMI**	PM 19
OKI	PM 06	**NOTO**	PM 13	**KOZU**	PM 20
GENKAI	PM 07	**HEKURA**	PM 14	**SHIKINE**	PM 21
				DAITO	PM 22

Displacement:	PM 01-03: 510 tons *standard*, 550 tons *normal* PM 04-22: 450 tons *standard*, 488 tons *trials*, 495 tons *normal*
Dimensions :	155¾ (*pp.*), 164 (*w.l.*), 170¾ (*o.a.*) × 26½ × 8¼ feet (PM 01-03, 172 (*o.a.*) × 26¾ × 9¼ feet)
Machinery :	2 sets diesel. B.H.P. : 1,300 = 15 kts.
Radius :	3,000 miles at 12 kts.

Notes.—PM 01-03 completed 1950, PM 04-17 in 1951 and PM 18-22 in 1952. New vessels of a design resembling United States Coast Guard Cutters. Owned by Government of Japan (Maritime Safety Agency).

Small Patrol Vessels.
20 "Kuma" Class.

OHYODO. *1953, courtesy Uraga Dock Co., Ltd. (Builders)*

KUMA	PS 62	**SAGAMI**	PS 67	**MOGAMI**	PS 72	**CHIKUGO**	PS 77
FUJI	PS 63	**OHYODO**	PS 68	**YOSHINO**	PS 73	**KUMANO**	PS 78
TENRYU	PS 64	**KUZURYU**	PS 69	**NOSHIRO**	PS 74	**NAGARA**	PS 79
ISUZU	PS 65	**ABUKUMA**	PS 70	**KIOS**	PS 75	**TONE**	PS 80
ISKIKARI	PS 66	**KIKUCHI**	PS 71	**SHINANO**	PS 76	**KITAKAMI**	PS 81

Displacement :	258 tons *standard*, 275 tons *normal*
Dimensions :	122 (*pp.*), 126½ (*w.l.*), 132½ (*o.a.*) × 23 × 7½ feet
Machinery :	2 sets 4 cycle single acting diesels. B.H.P. : 800 = 13·6 (*max.*), 12 kts. (service)
Radius :	2,000 miles at 12 kts.

Notes.—*Ohyodo* built by Uraga Dock Co., Ltd., keel laid 15 Dec. 1950, launched 7 May 1951, delivered 6 Aug. 1951. Owned by Japanese Maritime Safety Agency. Cochrane oil burning donkey boiler, two generators, wireless, gyro compass, echo-sounder, radar, direction finder, etc.

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Small Patrol Vessels—*continued.*

WAKACHIDORI	PS 44 (ex-No. 1540)	**KYODO MARU**	PS 56 (ex-No. 1538)
HAMACHIDORI	PS 45 (ex-No. 1338)	**TOMOCHIDORI**	PS 58 (ex-No. 1264)
ASACHIDORI	PS 46 (ex-No. 1332)	**OHI MARU**	PS 60 (ex-No. 1541)
HAKATA MARU		**OTAKA MARU**	
No. 16	**No. 1090**	**No. 1336**	

Displacement : 290 tons
Dimensions : 152½ (*o.a.*) × 22½ × 7½ feet
Machinery : 2 diesels. B.H.P. : 800 = 14 kts.

KASASAGI	PS 01 (ex-No. 175)	**CHIDORI**	PS 18 (ex-No. 1)
WAKASAGI	PS 02 (ex-No. 198)	**HAYABUSA**	PS 19 (ex-No. 185)
MANAZURU	PS 03 (ex-No. 245)	**KIJI**	PS 20 (ex-No. 4)
YAMADORI	PS 04 (ex-No. 187)	**KAWASEMI**	PS 21 (ex-No. 57)
OSHIDORI	PS 05 (ex-No. 227)	**HIYODORI**	PS 22 (ex-No. 203)
UGUISU	PS 06 (ex-No. 154)	**KOTAKA**	PS 24 (ex-No. 161)
TSUGUMI	PS 07 (ex-No. 217)	**WAKATAKA**	PS 25 (ex-No. 196)
SEKIREI	PS 08 (ex-No. 80)	**SHIGI**	PS 26 (ex-No. 155)
OHTAKA	PS 09 (ex-No. 232)	**KAMOME**	PS 27 (ex-No. 68)
KARI	PS 10 (ex-No. 239)	**OTORI**	PS 28 (ex-No. 78)
YAMASEMI	PS 11 (ex-No. 169)	**UZURA**	PS 32 (ex-No. 58)
BENIZURU	PS 12 (ex-No. 183)	**OHSAGI**	PS 37 (ex-No. 157)
HATSUKARI	PS 13 (ex-No. 186)	**HINAZURA**	PS 38 (ex-No. 159)
SHIRASAGI	PS 14 (ex-No. 219)	**HOOJIRO**	PS 39 (ex-No. 71)
KOMADORI	PS 15 (ex-No. 236)	**SHIRATAKA**	PS 40 (ex-No. 173)
HATO	PS 17 (ex-No. 166)	**YAMAGARA**	PS 41 (ex-No. 179)
		MIZUTORI	PS 42 (ex-No. 194)

Displacement : 135 tons
Dimensions : 95½ (*o.a.*) × 18½ × 6½ feet
Machinery : Diesel. B.H.P. : 400 = 11 kts.

Note.—Auxiliary Submarine Chaser type, built of wood.

KATOKU PS 29

Displacement : 405 tons *standard*, 430 tons *normal*
Dimensions : 160½ (*o.a.*) × 25 × 7½ feet
Machinery : Reciprocating. 2 shafts. I.H.P. : 600 = 12 kts.

Note.—Ex-naval auxiliary minelayer of the same name.

AICHI MARU	PS 30	**SHIMACHIDORI**	PS 50 (ex-No. 870)
EIKAI MARU	PS 31	**ARB**	PS 48 (ex-No. 1341)
KOJO MARU	PS 33	**TATEKUMARA**	PS 49 (ex-No. 1089)
HAYABUSA MARU	PS 35	**MURACHIDORI**	PS 57 (ex-No. 1091)
IWACHIDORI	PS 61 (ex-No. 873)	**KABASHIMA**	PS 59
ISOCHIDORI	PS 43 (ex-No. 902)	**SAYOCHIDORI**	PS 52
No. 930		**YUFU MARU**	

Note.—Small patrol vessels of various displacements from 81 to 205 tons.

Patrol Boats.

SUZUTSUKI. 1953, *Hajime Fukaya.*

HATSUNAMI	PC 01	**CHIYONAMI**	PC 09	**TERUZUKI**	PC 17
AYANAMI	PC 02	**HAYANAMI**	PC 10	**URAZUKI**	PC 18
ISONAMI	PC 03	**HATSUZUKI**	PC 11	**WAKAZUKI**	PC 19
URUNAMI	PC 04	**HANADUKI**	PC 12	**YAMAZUKI**	PC 20
KIYONAMI	PC 05	**KIYOTSUKI**	PC 13	**HARUZUKI**	PC 21
ORINAMI	PC 06	**MOCHIZUKI**	PC 14	**NATSUZUKI**	PC 22
TAMANAMI	PC 07	**NIIZUKI**	PC 15	**AKIZUKI**	PC 23
SUZUMAMI	PC 08	**SUZUTSUKI**	PC 16	**YUZUKI**	PC 24

Displacement : 45 tons
Dimensions : 75½ (*o.a.*) × 14½ × 3 feet
Machinery : 2 diesels. B.H.P. : 700 = 14 kts.

Note.—Rated as local patrol boats. Patrol chaser type.

MUTSUKI PC 25

Displacement : 55 tons
Dimensions : 83½ (*o.a.*) × 15½ × 4½ feet
Machinery : 2 diesels. B.H.P. : 1,000 = 16 kts.

HATSUKAZE CL 11. 1953, *Hajime Fukaya.*

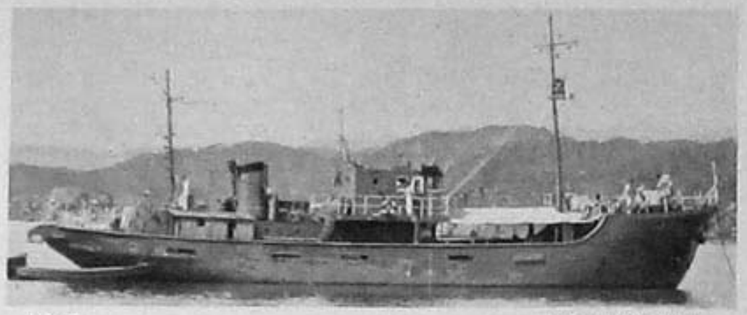
CL 01 to **CL 111**

Notes.—92 harbour patrol boats ranging from 15 to 451 tons displacement.

CS 01 to **CS 105**

Notes.—89 small craft of various displacements.
There are also 5 STR craft (STR 01 to STR 05), 20 CR boats, 7 CF boats, 3 HM boats, 22 HS boats, 2 LL boats, 3 LM boats, and 7 LS boats.

Minesweepers.



MS 20. 1953, *Hajime Fukaya.*

MS 18 (ex-No. 31)	**MS 23** (ex-No. 138)	**MS 27** (ex-No. 154)
MS 19 (ex-No. 84)	**MS 24** (ex-No. 139)	**MS 28** (ex-No. 175)
MS 20 (ex-No. 134)	**MS 25** (ex-No. 152)	**MS 29** (ex-No. 179)
MS 21 (ex-No. 135)	**MS 26** (ex-No. 153)	**MS 30** (ex-No. 191)
MS 22 (ex-No. 136)		

Displacement : 250 tons
Dimensions : 105½ (*o.a.*) × 20 × 7½ feet
Machinery : Diesel. B.H.P. : 400 = 9 kts.

Notes.—Ex-naval Auxiliary Patrol Craft types of wooden construction, used as minesweepers.

MS 01 (ex-No. 171)	**MS 09** (ex-No. 86)	**MS 57** (ex-No. 168)
MS 02 (ex-No. 221)	**MS 10** (ex-No. 89)	**MS 81** (ex-No. 4)
MS 03 (ex-No. 222)	**MS 11** (ex-No. 90)	**MS 82** (ex-No. 78)
MS 04 (ex-No. 241)	**MS 12** (ex-No. 93)	**MS 83** (ex-No. 196)
MS 05 (ex-No. 246)	**MS 13** (ex-No. 99)	**MS 84** (ex-No. 203)
MS 06 (ex-No. 249)	**MS 15** (ex-No. 214)	**MS 85** (ex-No. 219)
MS 07 (ex-No. 72)	**MS 16** (ex-No. 215)	**MS 86** (ex-No. 232)
MS 08 (ex-No. 79)	**MS 17** (ex-No. 231)	

Displacement : 135 tons
Dimensions : 95½ (*o.a.*) × 18½ × 6½ feet
Machinery : Diesel. B.H.P. : 400 = 11 kts.

Notes.—Ex-naval Auxiliary Submarine Chaser and minesweeper types of wooden construction

MS 33	**MS 39**	**MS 56**	**MS 66**	**MS 71**
MS 34	**MS 41**	**MS 58**	**MS 67**	**MS 72**
MS 35	**MS 42**	**MS 59**	**MS 68**	**MS 75**
MS 36	**MS 50**	**MS 60**	**MS 69**	**MS 77**
MS 37	**MS 54**	**MS 61**	**MS 70**	**MS 80**
MS 38	**MS 55**	**MS 62**		

Notes.—Auxiliary minesweepers of various displacements up to 350 tons.

Minesweeping Headquarters Ships.

SUEI-MARU MS 32

Displacement : 2,850 tons *standard*, (6,145 tons *full load*)
Machinery : S.H.P. : 1,200 = 11·5 kts.

Note.—Ex-wartime 2 TM tanker used as a " guinea pig " in minesweeping.

MS 31

Displacement : 6,888 tons (14,250 tons *full load*)
Machinery : I.H.P. : 2,200 = 13 kts.

Transport.

Added 1952, Hajime Fukaya.

SOYA (ex-*Chiryo Maru*)

Builders : Koyakijima, Kowaminami Co.
Completed : 10 June 1938
Displacement : 3,800 tons *standard* (2,224 tons gross)
Dimensions : 257 (*pp.*) × 42 × 20½ feet
Guns : 1—3·1 inch (80 mm.) AA., 1—25 mm. AA., 10 D.C.
Machinery : Reciprocating. 1 shaft. I.H.P. : 1,597 = 12·37 kts.

Notes.—Originally for U.S.S.R. taken over by Navy and reconstructed at Yokosuka for service in northern waters. Was given an icebreaker bow. Commissioned 4 June, 1940.

Cable Layer.

Added 1952, Hajime Fukaya.

TSURISHIMA

Builders : Kawasaki Kobe
Laid down : 15 Jan. 1940
Launched : 24 May, 1940
Completed : 23 Mar. 1941.
Displacement : 1,564 tons *standard*, 1,700 tons *trial*
Dimensions : 252 (*o.a.*) × 35½ × 110 feet
Guns : 1—3·1 inch AA., 6—25 mm. AA. (2 twin, 2 single), D.C.
Machinery : Reciprocating. 2 shafts. I.H.P. : 2,300 = 14 kts.

Notes.—" Hashima " class. Belongs to and used by Home Affairs Department. Sister ships *Hashima*, *Otate* and *Toteishi* lost during war.

Salvage Vessel.

KURIHASHI

Displacement : 800 tons *standard* (1,040 tons *full load*)
Dimensions : 190 (*o.a.*) × 30 × 11½ feet
Machinery : Reciprocating. I.H.P. : 1,600 = 12·5 kts.

Note.—Ex-naval salvage ship purchased during Russo-Japanese war.

KOREA

Administration.

At the time of the outbreak of the Korean War, the Commander-in-Chief of the Republic of Korea Navy was Admiral Sohn Won Yil and the Navy Headquarters were at Seoul.

Ship Types

Types of vessels are in different number designation classes as follows :

PFs 60 (Frigates).
PCs 700 (Patrol Vessels).
AMSs. 500 (Minesweepers).
Miscellaneous Types 100
AMCs 300 (ex-Japanese Minelayers).
LSTs 800 (Tank Landing Craft).
FSs. 900.
PCSs 200 (Patrol Craft).

About 30 small craft were acquired before hostilities, including a few ex-U.S. auxiliary minesweepers, a flotilla of ten former Japanese coastal minelayers, and some picket boats.

When the U.S. occupation forces were withdrawn from the Republic of Korea in July 1949, 79 vessels, mainly of U.S. Navy Types : Yard Minesweepers (YMS), Landing Craft Infantry (LCI), and Picket Boats, were transferred to the Korean Security Forces.

Ships' names are prefaced by R.O.K. (Republic of Korea).

Frigates.

TAEDONG. 1952.

IMJIN (ex-U.S.S.)
DUMAN (ex-U.S.S. *Muskogee*, *PF* 49)
NAKTONG (ex-U.S.S. *Hoquiam*, *PF* 5)
TAEDONG (ex-U.S.S. *Tacoma*, *PF* 3)

Displacement : 1,430 tons (2,100 tons *full load*)
Dimensions : 304 (*o.a.*) × 37½ × 13¾ (*max.*) feet
Guns : 3—3 inch, 50 cal., d.p., 10—40 mm. and 20 mm. AA.
Machinery : Triple expansion, 2 shafts. I.H.P. : 5,500 = 20 kts.
Complement : 180

Notes.—Former United States frigates transferred to Russia under Lend-Lease scheme during the Second World War. Returned to U.S. Navy after hostilities and laid up at Yokosuka naval base in " caretaker " status, preserved but not in use. Reactivated on outbreak of Korean War. First pair loaned to ROK Navy and commissioned 5 Nov. 1950, as soon as personnel could be trained to man them. Second pair transferred to South Korean Navy, 8 Oct. 1951 at Yokosuku. *Apnok* (*PF* 62) was in major collision 21 May 1952, decommissioned and returned to U.S.N. Replaced by *Imjin*.

Pendant No.	*Name*	*Builders*	*Launched*	*Completed*
PF 61	*Duman*	Consolidated Steel Corpn., Los Angeles	18 Oct., 1943	1944
PF 65	*Naktong*	Permanente Metals Corpn.	1943	1944
PF 63	*Taedong*		1943	1944
PF 66	*Imjin*		1943	1944

Patrol Vessels.

BAK DU SAN, **PC 701** (ex-*Ensign Whitehead*, ex-U.S.S. *PC* 823)
KIM GAN SANG, **PC 702** (ex-U.S.S. *PC* 810)
SAM GAK SANG, **PC 703** (ex-U.S.S. *PC*——)
PC 705 (ex-U.S.S. *PC* 485)
PC 706 (ex-U.S.S. *PC* 600)

Displacement : 280 tons *standard* (450 tons *full load*)
Dimensions : 173½ (*o.a.*) × 23 × 10½ (*max.*) feet
Guns : 1—3 inch, 50 cal., 1—40 mm. AA., 2—20 mm. AA.
Machinery : Diesels. 2 shafts. B.H.P. : 2,880 = 20 kts.
Complement : 80

Notes.—Built 1941-42. Steel. Former United States submarine chasers. *Bak Du San* is a former United States Merchant Marine Academy's training ship. She was purchased by the 7,500 officers and men of the South Korean Navy in Sep. 1949, at a cost of $18,000 and fitted with guns at Pearl Harbour in Jan. 1950, preparatory to sailing for Chinhae Korea, Naval Base. Three other converted *PC* boats for the South Korean Navy were at Honolulu on the outbreak of war in Korea. *Chiri San*, *PC* 704 was mined and sank off Wonsan, Korea, 26 December, 1951.

Minesweepers.

KANGJIN	**AMS 501**	**KANGKAE**	**AMS 506**	**KIMCHON**	**AMS 513**
KYONJU	**AMS 502**	**KANGNUNG**	**AMS 507**	**UE NAM**	**AMS 515**
KWANGJU	**AMS 503**	**KANGGYONG**	**AMS 510**		
KIMHAE	**AMS 505**	**KUWALSAN**	**AMS 512**		

Displacement : 270 tons (350 tons *full load*)
Dimensions : 136 (*o.a.*) × 24½ × 8 (*max.*) feet
Guns : 1—3 inch, 50 cal., 2—20 mm. AA.
Machinery : Diesels. B.H.P. : 1,000 = 15 kts.
Complement : 50

Notes.—Built 1941-42. Wood. Former United States auxiliary motor minesweepers. All ex-YMS type. Rigged as minesweepers except *MS* 514 and *MS* 518, minesweeper type not converted into sweepers. Hull of *AMS* 504 has been weakened by mine damage and is not considered safe to employ her other than close inshore as Pusan entrance patrol. *AMS* 516 was mined and sunk in Wonsan Harbour, 19 Oct. 1950. *AMS* 509 mined 28 Sep. 1950 off Korea.

Submarine Chasers.

KAESUNG **PCS 504** (ex-*YMS* 504) **KILCHU** **PCS 514** (ex-*YMS* 514)
PCS 518 (ex-*YMS* 518)
PCS 201 **PCS 202** **PCS 203** **PCS 204**
(ex-*PCS* 1442, 1445, 1446, 1448)

Auxiliary Minelayers.

TAEJON	**AMC 301**	**TANGHON**	**AMC 307**
TONGYONG	**AMC 302**	**TOSUNG**	**AMC 308**
TAEGU	**AMC 303**	**TAEDONGGANG**	**AMC 309**
TAEBAEKSAN	**AMC 304**	**TUKCHON**	**AMC 310**

Notes.—Designed and constructed by the Japanese as light minesweepers and capable of being refitted as such. Formerly designated *JML* (small ex-Japanese). *AMC* 306 mined and sunk 5 May 1951. Ex-*JML* 313, 315 now designated as gunboats *PC* 313, 315.

Motor Torpedo Boats.

KALMAKEKI **PT 23** **OLPAMEI** **PT 26**
KIROKI **PT 25** **JEBY** **PT 27**

Notes.—Former U.S. Navy craft transferred to R.O.K.N. Jan. 1952. PTs armed with machine guns and rocket launchers.

Gunboats.

HUKCHOWNAN **No. 22** (ex-Japanese) **CHUNG MUKONG I** **PG 133**
CHUNG MUKONG II **PG 315**

Patrol Boats.

No. 1 **No. 2** **No. 3** **No. 4** **No. 6** **No. 7** **No. 8** **No. 10**

Landing Ships.

CHONGHO **LST 801** **ANDONG** **LST 803** **LST 805**
ULSAN **LST 802** **LST 806**

Note.—Former United States Landing Ships.

CHUNG JIN **LSIL 105** **LSSL 107** (ex-*LSSL* 77) **LSSL 109**
LSSL 108 (ex-*LSSL* 91) **LSSL 110**

Oiler.

KURYONG YO 106

Note.—Ex-United States self-propelled fuel oil barge.

Oceangoing Tug.

LTI (ex-U.S. Army LT 34 or LT 134)

Harbour Tugs.

No. 1 **No. 4** **No. 5** **No. 9**

Supply Ships

HAN YANG

Note.—Dedicated by President Rhee at Pusan where she was built in 1951.

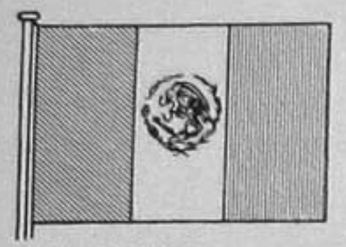
NAMWONHO **FS 901** **YOJUHO** **FS 903** **CHUNGU** **FS 906**
KIMHAEHO **FS 902** **WAEKWANHO** **FS 905**

Note.—All ex-U.S. Army FS craft.

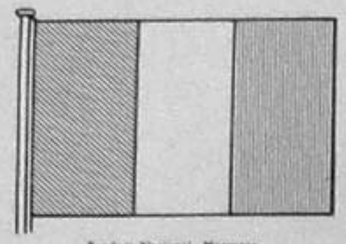
205R

MEXICO

Flags.

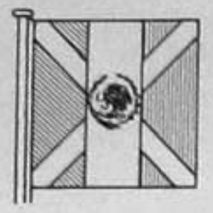


Bandera Nacional de Guerra
(ENSIGN & NATIONAL)



Bandera Nacional Mercante
(MERCANTILE)

Secretario de Marina
(SECRETARY OF THE NAVY)

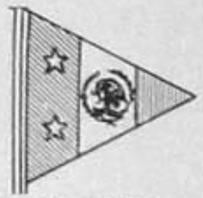


Sub Secretario de Marina
(UNDER SECRETARY OF THE NAVY)

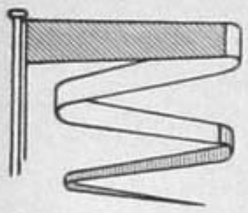
Comandante General de la Armada
(Commander in Chief)

Vice almirante con Mando
(Vice Admiral in Command)

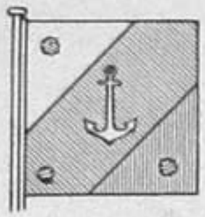
Contralmirante con Mando
(Rear Admiral in Command)



Cap. de Navio con Mando de Division
(CAPTAIN IN COMMAND OF A DIVISION)



Comandante de Buque
(PENDANT)



TORROTITO
(JACK)

Coat of Arms, from which the centre device on flags is adapted.

RED

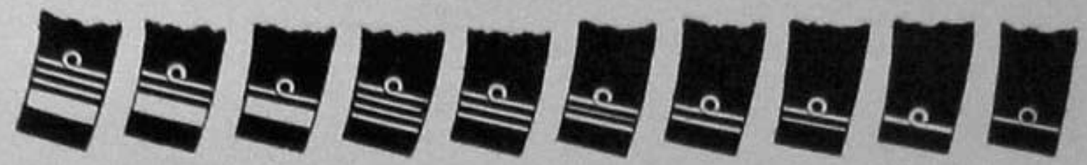
GREEN

YELLOW

Administration.

Secretary of the Navy : Brigadier General Rodolfo Sánchez Taboada
Under-Secretary : Engineer Alberto J. Pawling.
Commander-General of the Navy : Admiral C. G. Manuel Zermeño Araico.
Chief of the Naval Staff : Vice-Admiral C. C. Héctor Meixueiro Alexandres.

Uniforms.



Almirante.	Vice-almirante.	Contr-almirante.	Capitan de Navio.	Capitan de Fragata.	Capitan de Corbeta.	Teniente de Navio.	Teniente de Fragata.	Teniente de Corbeta.	Guardia-marina.
Admiral.	*Vice-Admiral.*	*Rear-Admiral*	*Captain.*	*Commander.*	*Lieut.-Commander.*	*Lieut. (Senior).*	*Lieut. (Junior).*	*Sub-Lieut.*	*Mid-shipman*

Note.—The rank of Comodoro (*Commodore*) was abolished in 1952.

Personnel.

8,000 officers and men, including marines.

Naval Estimates.

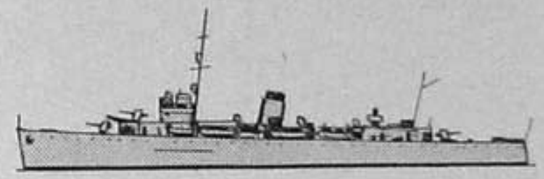
1951, $31,800,000. 1952, $37,060,912.50

Mercantile Marine.

Lloyd's Register appendix, 1953 : 84 vessels of 166,111 tons *gross*.

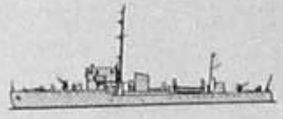
Silhouettes.

CALIFORNIA *Class.*

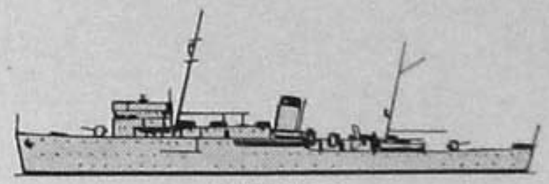


QUERÉTARO *Class.*

DAVID PORTER *Class.*

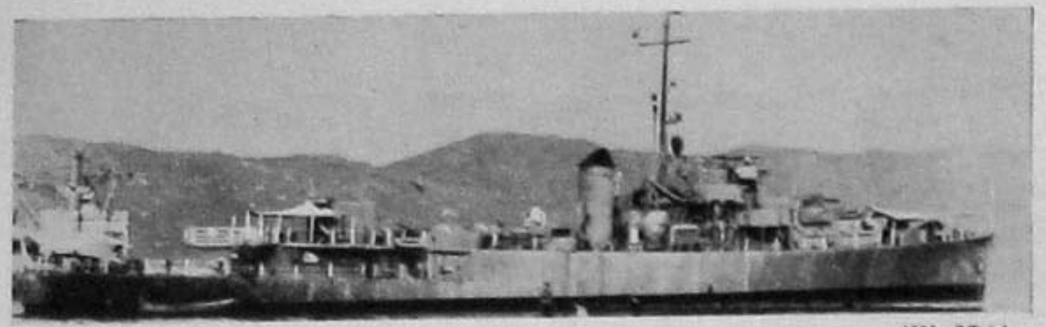


G120 *Class.*



DURANGO.

Frigates.



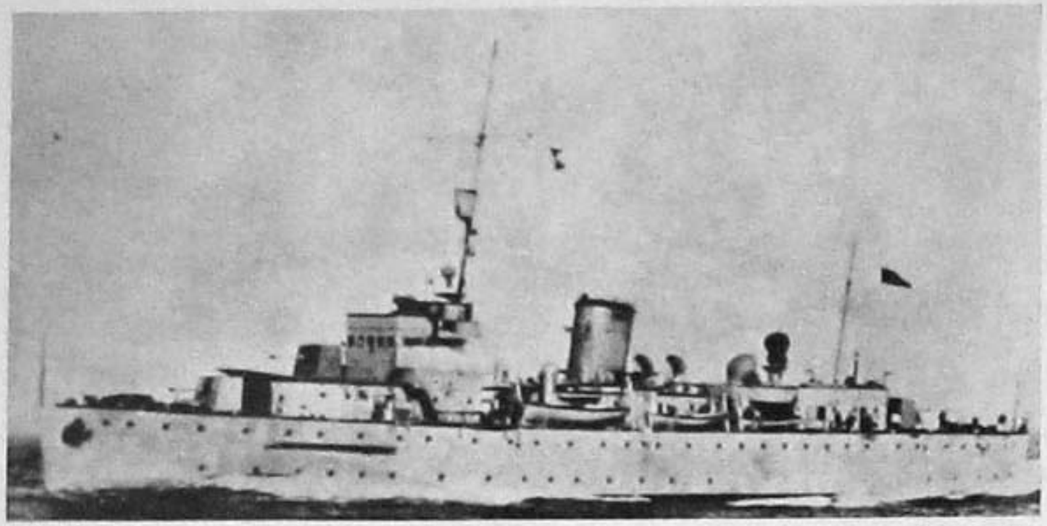
USAMACINTA. 1953, *Official.*

CALIFORNIA (ex-*Hutchinson*) **PAPALOAPAN** (ex-*Gladwyne*) **TEHUANTEPEC** (ex-*Bangor*) **USUMACINTA** (ex-*Annapolis*)

Displacement :	1,430 tons (2,415 tons *full load*)
Dimensions :	285½ (*w.l.*) 304 (*o.a.*) × 37½ × 13½ feet
Guns :	2—3 inch, 50 cal., 2—20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 19 kts.
Boilers :	2, of 3-drum type
Oil fuel :	290 tons

Notes.—Purchased in 1947. Former United States patrol frigates of " Tacoma " class.

Name	*Builders*	*Launched*	*Name*	*Builders*	*Launched*
California	Consolidated Steel, San Pedro	27 Aug., 1943	*Tehuantepec*	American Lorraine, Ohio	7 Nov., 1944
Papaloapan	Globe, Superior	7 Jan., 1944	*Usumacinta*	American Lorraine, Ohio	16 Oct., 1943



QUERÉTARO. 1951, *Official.*

GUANAJUATO **POTOSI** **QUERETARO**

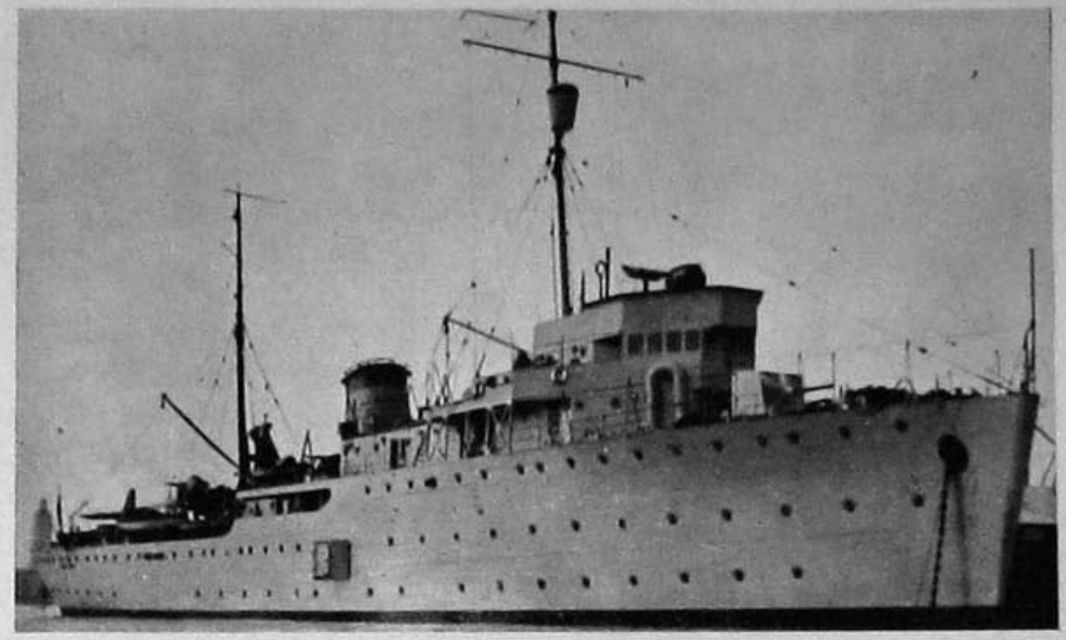
Displacement :	1,300 tons *standard*
Dimensions :	264 (*o.a.*) × 37½ × 10 feet
Guns :	3—4 inch, 6—20 mm. AA. (*twin*) (*Guanajuato*, 4—25 mm., 1—20 mm., *Querétaro*, 2—57 mm., 2—20 mm., 2—13 mm. AA.), 8—13 mm. AA., 4 D.C.T.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 5,000 = 20 kts.
Boilers :	Yarrow
Complement :	140. Can carry 230 men and 20 horses in addition.

Name	*Builders*	*Launched*
Guanajuato	Sociedad Español de Construccion Naval, Ferrol	29 May, 1934
Potosi	S.E. de C.N., Matagorda, Cadiz	24 Aug., 1934
Queretaro	S.E. de. C.N., Ferrol	29 June, 1934

Frigate (and Transport)

Classed as *Transportes-Canoneros.*

1 " Durango " Type.



1951, *Official.*

DURANGO

Builders :	Union Naval de Levante, Valencia
Launched :	28 June, 1935
Completed :	1936

Displacement :	1,600 tons *standard*, (1,950 tons *full load*)
Dimensions :	282 (*p.p.*), 303 (*o.a.*) × 40 × 10 feet
Guns :	2—4 inch, 2—57 mm., 2—25 mm. AA. (twin mounts), 2—13 mm. AA.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 6,500 = 20 kts. *designed* (19 kts. sea speed)
Boilers :	2 Yarrow
Oil fuel :	140 tons
Radius :	3,000 miles at 15 kts.
Complement :	141

Notes.—Accommodation for 20 officers, 450 men, 80 horses. Designed primarily as an armed transport, this vessel carries a weaker armament than the three *canoneros* of the " Guanajuato " class (see illustration at bottom of adjacent column) which besides their troop carrying and transport capacity are equivalent to frigates in many ways. A sister ship of the *Durango*, the *Zacatecas*, was taken over by the Spanish Navy on completion as a gunboat or frigate and renamed *Calvo Sotelo*.

Escort Patrol Vessels (Classed as *Guardacostas*).

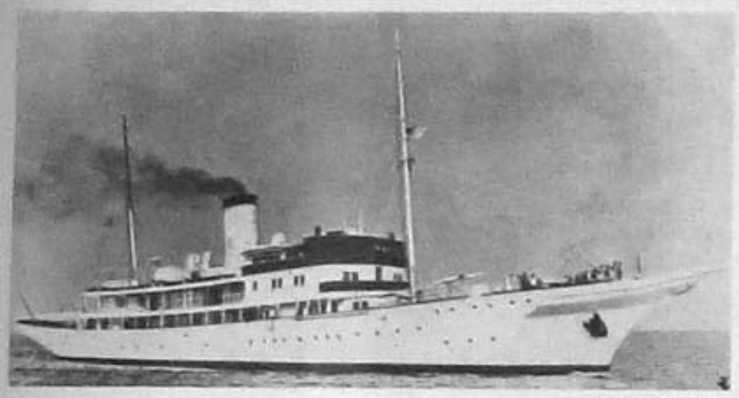
PEDRO SAINZ DE BARANDA. 1950, *J. Meister.*

BLAS GODINEZ (ex-*PCE* 844)
DAVID PORTER (ex-*PCE* 847)
PEDRO SAINZ DE BARANDA (ex-*PCE* 868)
TOMÁS MARÍN (ex-*PCE* 871)
VIRGILIO URIBE (ex-*PCE* 875)

Displacement :	600 tons (903 tons *full load*)
Dimensions :	180 (*w.l.*), 184½ (*o.a.*) × 33 × 9½ feet
Guns :	1—3 inch, 50 cal., 6—40 mm. AA., 4—20 mm. (except *Virgilio Uribe*), 4 D.C.T. (*Blas Godinez*, 1—3 inch, 3—40 mm. AA., 5—20 n.m. AA.)
Machinery :	G.M. Diesel. B.H.P. : 1,800 = 20 kts. (15½ kts. sea speed)

Note.—Purchased from U.S.N. 1947.

Transport.



1953, *Official.*

ORIZABA (*ex-Southern Cross, ex-Rover*)

Launched :	1930
Displacement :	1,851 tons
Thames measurement :	2,113 tons
Dimensions :	266½ (*w.l.*), 320½ (*o.a.*) × 40½ × 14½ feet
Guns :	2—13 mm. AA.
Machinery :	Triple expansion. I.H.P. : 2,600 = 11 kts.
Boilers :	3 cylindrical
Oil fuel :	380 tons

Notes—Ex- yacht. Formerly rated as training ship (*Buque Escuela*). Now transport.

Patrol Vessels

1953, *Official.*

GC 30 (ex-*PC* 820)	**GC 33** (ex-*PC* 813)	**GC 36** (ex-*PC* 1224)
GC 31 (ex-*PC* 608)	**GC 34** (ex-*PC* 794)	**GC 37** (ex-*PC* 819)
GC 32 (ex-*PC* 614)	**GC 35** (ex-*PC* 824)	**GC 38** (ex-*PC* 1210)

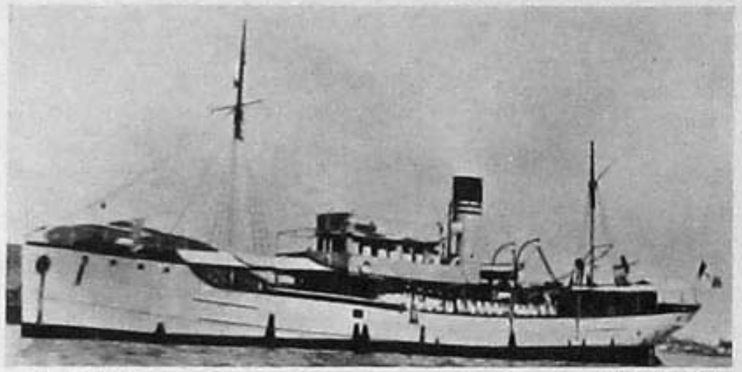
Displacement :	318 tons (375 tons *full load*)
Dimensions :	170 (*w.l.*), 173½ (*o.a.*) × 23 × 6 feet
Guns :	1—3 inch, 1—40 mm. AA., 5—20 mm. AA.
Machinery :	2 Diesels. 2 shafts. B.H.P. : 1,750 = 19 kts. (*max.*).

Notes.—Launched 1943. Purchased in United States 1952. Cruising speed 10 kts.

G 20	G 21	G 22	G 23	G 25	G 26	G 27	G 28

Displacement :	130 tons *standard* (184 tons *full load*)
Dimensions :	147½ (*pp.*), 153 (*w.l.*), 156 (*o.a.*) × 16½ × 5½ feet (*mean*)
Guns :	2—20 mm. AA., 2 D.C.T.
Machinery :	M.A.N. Diesels. 2 shafts. B.H.P. : 3,000 = 24 kts. (now less)
Complement :	26

Notes.—Launched 1934-35. Though of British design, these vessels were built in Spain, by Compania Euskalduna de Construccion, Eilbao, with German engines and bullet-proof hull plating, and were originally armed with French guns.



ACAPULCO. 1951, *Official.*

ACAPULCO (*ex-Salinas*) **VERACRUZ**

Displacement :	488½ tons
Dimensions :	131½ (*pp.*), 135½ (*o.a.*) × 22½ × 13½ (*mean*), 14½ (*max.*) feet
Guns :	1—57 mm., 2—40 mm., 2 M.G., (*Acapulco*, 1—25 mm., AA., 1—13 mm. AA.
Machinery :	I.H.P. : 557 = 7 kts.

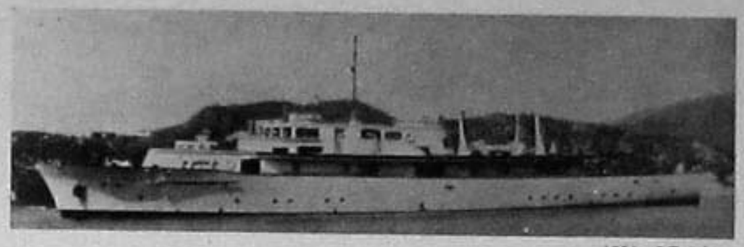
Notes.—Launched 1918. All ex-trawlers purchased in Canada 1920. Rated as Auxiliary Coastguard Vessels.

Patrol Boats.

HALCON	**NEREIDA**
Displacement :	83 tons
Dimensions :	85 × 14 × 5 feet
Guns :	2 M.G.
Machinery :	2 sets Diesels. B.H.P. : 800 = 20 kts.

Notes.—Rated as Patrol Launches. *Halcon* built at S. Diego, Calif. ; launched 20 Aug., 1941. *La Paz* was wrecked.

Presidential Yacht.



1951, *Official.*

SOTAVENTO

Builders :	Higgins, New Orleans
Launched	1947
Dimensions :	165½ × 27½ × 9½ feet
Machinery :	Diesel engines. B.H.P. : 900 = 17 kts.

Notes.—Handsome, symmetrical and low-lying, streamlined, truncated funnel, air conditioned, equipped with radar.

Tugs.

FRANCISCO NICOLAU

Displacement 750 tons

1951, *Official.*

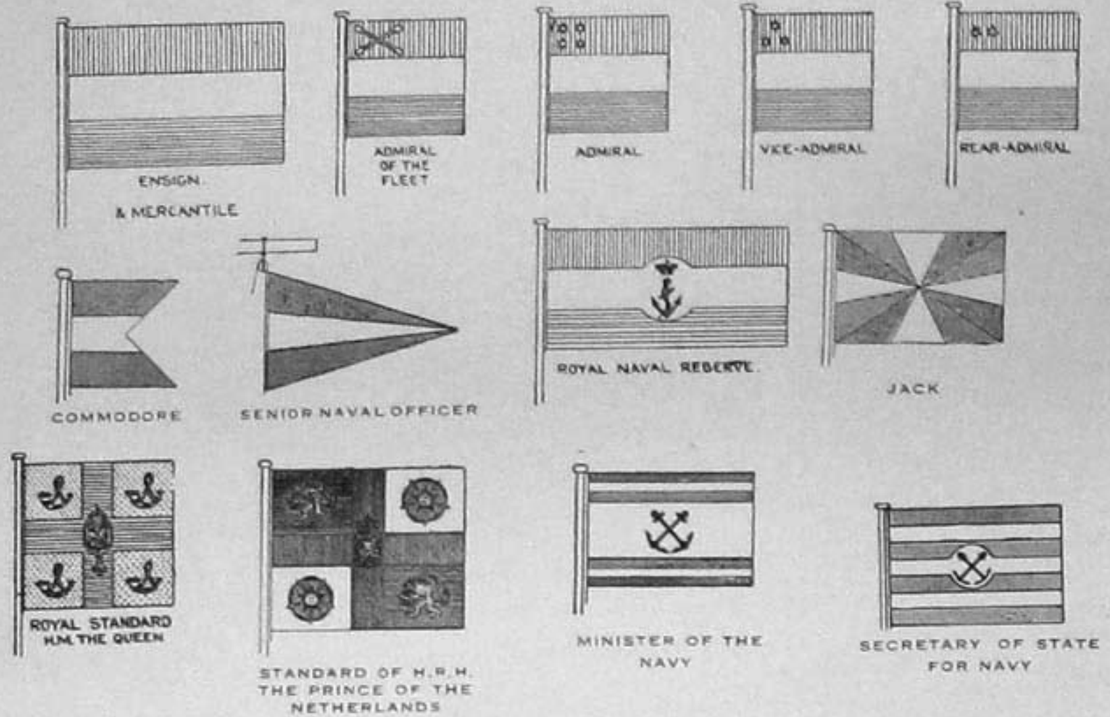
RIO BLANCO

Displacement :	100 tons
Dimensions :	64 × 16 × 6 feet
Machinery :	Diesel. B.H.P. : 450 = 9 kts.

Notes.—Built in Canada. Rated as Buque Auxiliar.

NETHERLANDS

Flags.



Royal Standard
H.R.H. The Crown Princess } Colours of these are *Nassau* blue (*dark* blue) and deep orange.

Governors of New Guinea, of Surinam and of Curacao: Three white balls replace stars, in flag of Vice-Admiral's type.

Commodore's flag is one formerly used for Captain Commanding Squadron.

Officers Commanding Divisions fly a blue pendant with a yellow number, from signal yard.

Officers Commanding Flotillas fly a white pendant with a red number, from signal yard.

Administration.

Minister of the Navy : Ir. C. Staf.

Secretary of State for the Navy : Vice-Admiral H. C. W. Moorman.

Commander-in-Chief and Chief of Naval Staff : Vice-Admiral A. de Booy, O.B.E.

Naval Attache, London : Captain P. A. Mulock van der Vlies Bik, C.V.O., R.Neth.N.

Uniforms.

Admiraal.	Luitenant-Admiraal.	Vice-Admiraal.	Schout by-nacht.	Commandeur.	Kapitein ter Zee.	Kapitein Luitenant ter Zee.	Luitenant ter Zee 1e Kl.	Luitenant ter Zee 2e Kl.	Luitenant ter Zee 3e Kl.	Adelborst der 1e Kl.
Corresponding to British										
Admiral of the Fleet.	*Admiral.*	*Vice-Admiral.*	*Rear-Admiral.*	*Commodore.*	*Captain.*	*Commander.*	*Lieut.-Commander.*	*Lieutenant.*	*Sub-Lieut.*	*Acting Sub-Lieut.*

After about a century, the rank of Commodore (Commandeur), temporary rank between Captain and Rear-Admiral, was re-established on July 1, 1949, for officers appointed to special posts.

Branch distinctions are as follows :

Executive Officers :	Foul anchor and crown in gold on lapel.
Air Officers :	Propeller and crown in gold on lapel.
Engineer Officers :	Torch, crossed by two arrows, and crown in gold on lapel.
Electrical Officers :	Arrow, crossed by two lightning flashes, and crown in gold on lapel
Supply and Secretariat Officers :	Foul anchor and crown in *silver* on lapel.
Medical Officers :	Staff of Æsculapius and crown in gold on lapel.
Dental Officers :	Staff of Æsculapius and crown in *silver* on lapel.
Branch Officers :	Two crossed foul anchors and crown in gold on lapel.
Special Service Officers :	Foul anchor and crown in gold on lapel, and *green* cloth between stripes.
W.R. Neth. N.S. Officers :	Foul anchor and crown in blue on lapel and blue stripes.
Chaplains :	Cross in gold on lapel and stripes *without curl*.

Navy Estimates.

1947 : Fl. 375,007,220	1949 : Fl. 323,771,380	1951 : Fl. 270,000,000	1953 : Fl. 323,000,000
1948 : Fl. 327,224,589	1950 : Fl. 314,809,510	1952 : Fl. 347,200,000	

Personnel.

About 22,800 officers and ratings (including about 4,000 officers and men of the Royal Marines)

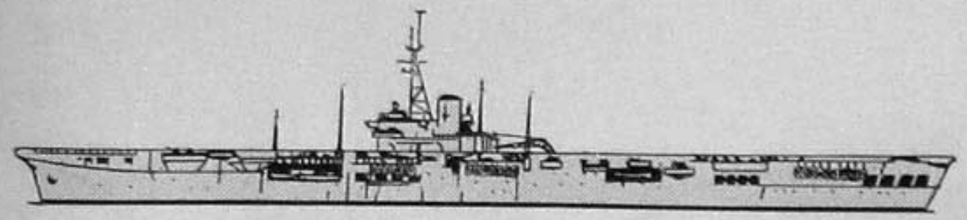
Ships.

Colour of warships is greyish blue, except submarines, which are painted dark green in home waters.
Ships of the Royal Netherlands Navy are referred to with the prefix "Hr. Ms."

Mercantile Marine.

Lloyd's Register appendix, 1953 : 1,625 vessels of 3,266,877 tons gross.

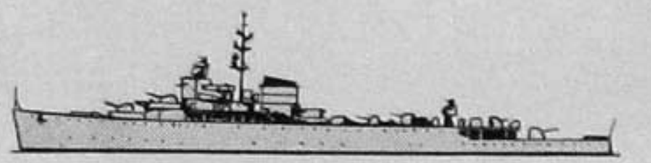
204R



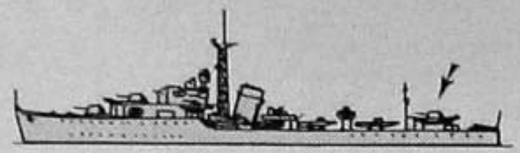
KAREL DOORMAN.

BANCKERT.

VAN KINSBERGEN.

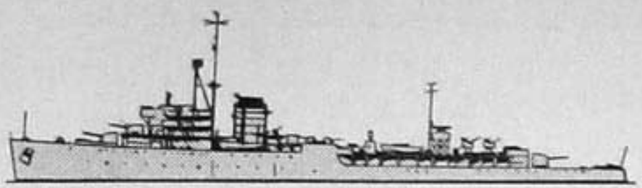


JACOB VAN HEEMSKERCK.



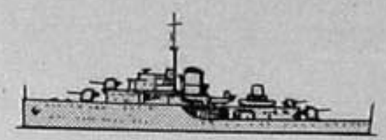
VAN GALEN.

BATJAN *Class.*

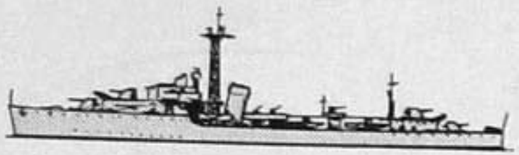


TROMP

MARNIX.

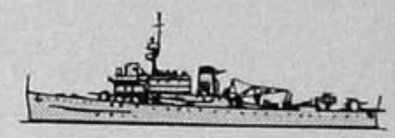


FLORES.



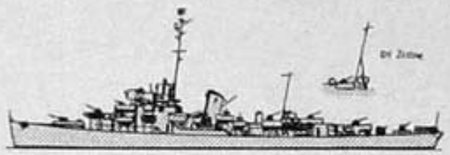
EVERTSEN.

JOHAN MAURITS.



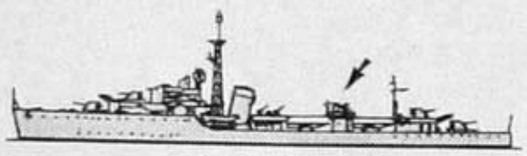
WILLEM VAN DER ZAAN.

PIET HEIN.



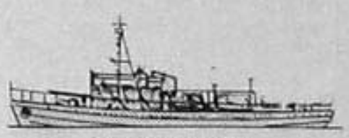
VAN ZIJLL (DE ZEEUW inset)

SOEMBA.



KORTENAER.

VAN SPEIJK.



SNELLIUS *Class.*

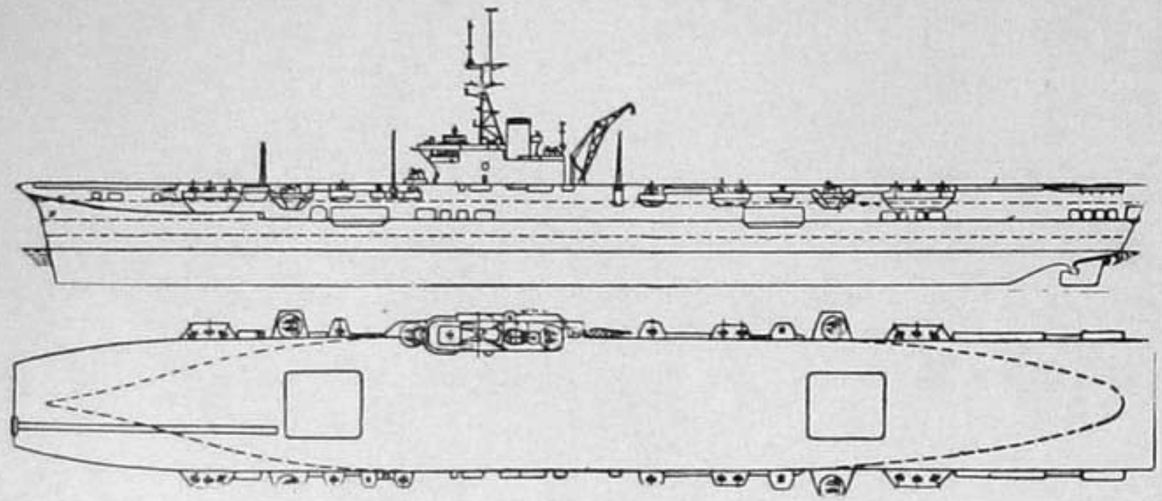
NETHERLANDS—Light Aircraft Carrier and Cruisers

Aircraft Carrier (*Vliegkampschip*).

1950, *Wright & Logan.*

KAREL DOORMAN (*ex-H.M.S. Venerable*)

Builders :	Cammell Laird & Co., Ltd., Birkenhead
Laid down :	3 Dec., 1942
Launched :	30 Dec., 1943
Completed :	17 Jan., 1945
Displacement :	13,190 tons *standard* (18,040 *tons full load*)
Dimensions :	Length : 630 (*pp.*), 693½ (*o.a.*) feet. Beam : 80 feet. Width overall : 112½ feet. Draught : 21½ (*mean*), 23½ (*max.*) feet
Guns :	24—40 mm. AA., 10—20 mm. AA., 4—3 pdr. saluting
Aircraft :	19 (Capacity 39 to 44) and at least 1 helicopter included in her equipment
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 25 kts. (designed), 24·25 kts. sea speed.
Boilers :	4, of 3-drum type, 400 lb. working pressure, 700 degrees maximum superheat
Complement :	1,300



General Notes.—Purchased from Royal Navy April 1, 1948. Commissioned in the Royal Netherlands Navy, May 28, 1948. Insulated for tropical service and partially air-conditioned. Pendant No. R 81.

Constructional Notes.—Sponsons can be dismantled to the extent of 3½ feet on either side if necessary to allow for passage through the Panama Canal. Dimensions of hangar are : Length, 445 feet ; width, 52 feet ; clear depth, 17½ feet.

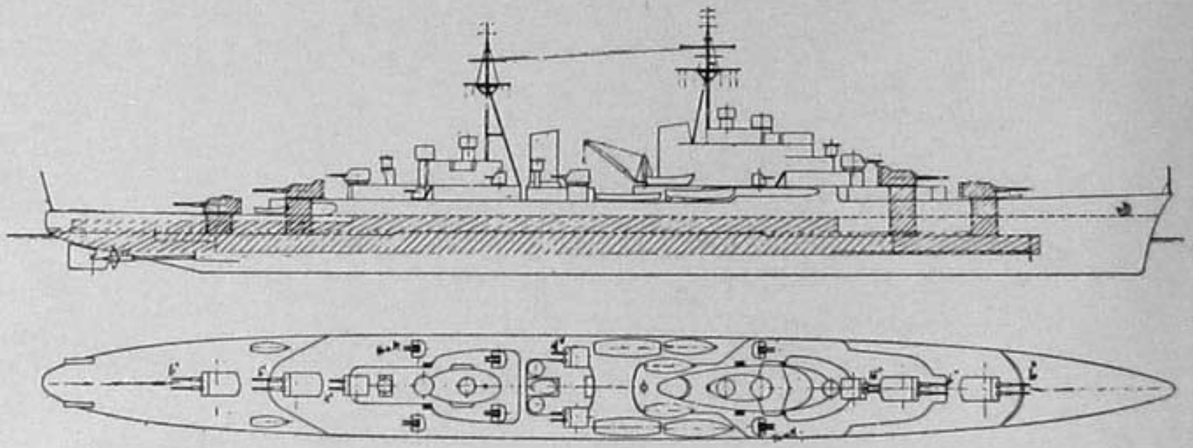
Engineering Notes.—Engines and boilers are arranged *en echelon*, the two propelling-machinery spaces having two boilers and one set of turbines in each space, on unit system.

Cruisers (*Kruisers*).

DE RUYTER. 1953, *R.N.N. Official.*

DE RUYTER (*ex-De Zeven Provincien*)
DE ZEVEN PROVINCIEN (*ex-De Ruyter, ex-Eendracht, ex-Kijkduin*)

Displacement :	8,500 tons *standard* (9,472 tons *full load* as originally designed, but more as completed)
Dimensions :	Length : 598 (*pp.*), 614½ and 609 (*o.a.*) feet, respectively. Beam : 57½ feet. Draught : 18½ (*mean*), 21 (*max.*) feet
Guns :	8—6 inch (Bofors 1942 model), 8—57 mm. AA. (in pairs), 8—40 mm. AA
Armour :	4"-3" side
Machinery :	Parsons geared turbines. S.H.P. : 80,000 = 33 kts.
Boilers :	4, of 3-drum type
Complement:	964



Note to Plan.—Shape of bow differs in the two ships, hence variation in overall length.

General Notes.—Machinery by K. M. de Schelde. Construction resumed in 1946. *De Zeven Provincien* on sea trials early 1953. *De Ruyter* was launched by the Germans as the *De Zeven Provincien*, but as the latter name was given to the former *De Ruyter* when she was launched by Queen Juliana on Aug. 22, 1950, the war-launched ship took her sister's name in exchange. Both cruisers commissioned autumn 1953.

Gunnery Notes.—Main armament has 60 degrees elevation.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
De Ruyter	Wilton-Fijenoord, Rotterdam	5 Sep., 1939	24 Dec., 1944	1 July 1953
De Zeven Provincien	Rotterdam Drydock Co.	19 May, 1939	22 Aug., 1950	1 Oct. 1953

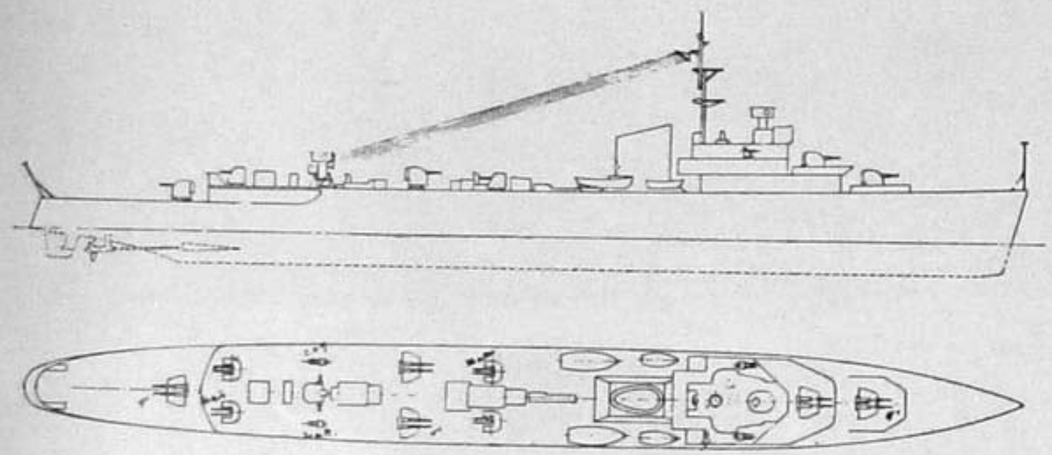
2032

Anti-Aircraft Cruiser.

1951, *Official.*

JACOB VAN HEEMSKERCK

Builders :	Nederlandsche Scheepsbouw Mij., Amsterdam
Laid down :	31 Oct., 1938
Launched :	16 Sep., 1939
Completed :	10 May 1940
Displacement :	3,350 tons *standard* (4,120 tons *full load*)
Dimensions :	Length : 426½ (*pp.*), 433 (*o.a.*) feet. Beam : 40½ feet. Draught : 18 feet (*max.*)
Guns :	10—4 inch AA., 8—40 mm. AA., 8—20 mm. AA.
Armour :	1½" deck, 2½" side
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 56,000 = 32 kts. (35 kts. on trials)
Boilers :	4 Yarrow
Oil fuel :	860 tons
Radius :	5,000 miles at 10 kts. ; 1,400 miles at 32 kts.
Complement :	376



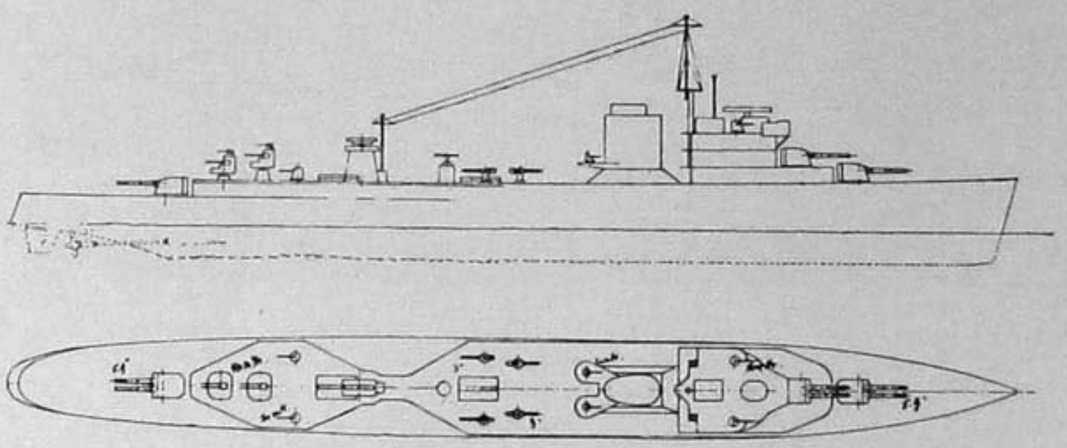
Notes.—Commissioned May 10, 1940, and converted into an AA. cruiser in a British dockyard (Portsmouth). Was originally designed as identical sister ship to *Tromp*. Pendant No. : C 803

Light Cruiser.

1951, *Skyfotos.*

TROMP

Builders :	Nederlandsche Scheepsbouw Mij., Amsterdam
Laid down :	17 Jan., 1936
Launched :	24 May, 1937
Completed :	18 Aug., 1938
Displacement :	3,350 tons *standard* (4,215 tons *full load*)
Dimensions :	Length : 426½ (*pp.*), 433 (*o.a.*) feet. Beam : 40½ feet. Draught : 18 feet (*max.*)
Guns :	6—5·9 inch, 50 cal. (Bofors), 4—3 inch AA., 8—40 mm. AA. (Bofors), 4—20 mm. AA. (Oerlikon)
Armour :	1½" deck, 2" side
Machinery	Parsons geared turbines. 2 shafts. S.H.P. : 56,000 = 32 kts. (35 kts. on trials)
Boilers :	4 Yarrow
Oil fuel :	860 tons
Radius :	5,000 miles at 10 kts. ; 1,400 miles at 32 kts.
Complement :	334



Notes.—Machinery by Werkspoor. Refitted 1949. The armament originally included 6—21 inch torpedo tubes and 4 D.C.T., and she carried 1 aircraft handled by derrick. Pendant No. C 804

Destroyers.

12 Anti-Submarine Type (New Construction).

2 *Koninklijke Maatschappij De Schelde, Flushing*
LIMBURG **UTRECHT**

1 *Dok-en-Werfmaatschappij Wilton-Fijenoord, Schiedam*
OVERIJSEL

4 *Nederlandse Dok en Scheepsbouw Mij., Amsterdam*
AMSTERDAM **FRIESLAND**
DRENTHE **GRONINGEN**

1 *Rotterdamse Droogdok Mij., Rotterdam*
ROTTERDAM

Displacement :	2,450 tons *standard* (3,150 tons *full load*)
Dimensions :	380½ (*o.a.*) × 38¼ × 12¼ feet
Guns :	4—4·7 inch, 6—40 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 60,000 = 36 kts.
Complement :	265

Notes.—Six anti-submarine destroyers were ordered in March, 1948. A further batch of six were ordered in Jan. 1950. To be completed in 1954-56. Will have some side armour as well as deck protection; but no torpedo tubes. Referred to in Netherlands as "Submarine Chasers." Named after provinces, Northern and Southern Holland, and two biggest towns. *Friesland*, launched 21 Feb. 1953, and *Groningen* are Type 47B, remaining six are Type 49.

1 *Rotterdamse Droogdok Mij., Rotterdam*
HOLLAND

2 *Koninklijke Maatschappij De Schelde, Flushing*
NOORDBRABANT
ZEELAND

1 *Dok-en-Werfmaatschappij Wilton-Fijenoord, Schiedam*
GELDERLAND

Displacement :	2,160 tons *standard* (2,765 tons *full load*)
Dimensions :	365 (*pp.*), 371 (*o.a.*) × 37½ × 12¼ feet
Guns :	4—4·7 inch, 4—40 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 45,000 = 32 kts.
Complement :	258

Notes.—This type 47A will be equipped with the turbines originally built before the Second World War for the destroyers of the "Gerard Callenburgh" class then under construction. In May 1940 these turbines fell into German hands, but in 1945 they were recovered, as the destroyers which the Germans ordered to be built by Netherlands shipbuilding yards and would have been fitted with these turbines were never built.

3 "Evertsen" Class.

KORTENAER. 1951, *A. & J. Pavia.*

EVERTSEN (*ex-Scourge*) **KORTENAER** (*ex-Scorpion, ex-Sentinel*) **PIET HEIN** (*ex-Seropis*)

Displacement :	1,710 tons (2,525 tons *full load*)
Dimensions :	362½ × 35½ × 10 feet
Guns :	4—4·7 inch, 2—40 mm. AA., 8—20 mm. AA. (*Kortenaer*, 4—2 pdr., 6—20 mm.)
Tubes :	8—21 inch (quadrupled)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 36 kts. (designed), 30·75 kts. on trials
Boilers :	2, of 3-drum type
Complement :	183

Notes.—Purchased from Great Britain 1945-46. *Evertsen* commissioned in R.N.N. Feb. 1, 1946. *Kortenaer* Oct. 1, 1945, *Piet Hein* Oct. 5, 1945. Names are those previously borne by destroyers lost in action in the East Indies, 1942.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 802	*Evertsen*	Cammell Laird & Co., Ltd., Birkenhead	26 Jun., 1941	8 Dec., 1942	14 Jul., 1943
D 804	*Kortenaer*	Cammell Laird & Co., Ltd., Birkenhead	19 Jun., 1941	26 Aug., 1942	11 May, 1943
D 805	*Piet Hein*	Scotts S.B. & Eng. Co., Ltd., Greenock	14 Aug., 1941	25 Mar., 1943	23 Dec., 1943

1953, *Official.*

BANCKERT (*ex-Quilliam*)

Builders :	Hawthorn Leslie
Launched :	29 Nov., 1941
Displacement :	1,725 tons (2,440 tons *full load*)
Dimensions :	358½ × 35½ × 9½ feet
Guns :	4—4·7 inch, 8—20 mm. AA., 4—2 pdr.
Tubes :	8—21 inch (quadrupled)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 31 kts.
Boilers :	2, of 3-drum type
Complement :	213

Notes.—Purchased from the Royal Navy, 1945. Name is that previously borne by destroyer lost in action in the East Indies, 1942. Commissioned in R.N.N. Nov. 21, 1945. Pendant No. D 801.

1951, *Official.*

VAN GALEN (*ex-Noble*)

Builders :	Denny
Launched :	17 Apr., 1941
Displacement :	1,760 tons (2,523 tons *full load*)
Dimensions :	348 × 35 × 9 feet
Guns :	6—4·7 inch, 4—40 mm. AA., 6—20 mm. AA.
Tubes :	5—21 inch (quintupled)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 31 kts.
Boilers :	2, of 3-drum type.
Complement :	210

Notes.—Purchased from the Royal Navy in 1940. Pendant No. D 803. Sister ship *Tjerk Hiddes* was transferred to the Indonesian Navy on 1 Mar., 1951.

Frigates (*Fregatten*).

1 Ex-British A/S Training Destroyer.

1951, *Skyfotos*

MARNIX (*ex-H.M.S. Garland*)

Builders :	Fairfield S.B. & Engineering Co. Ltd., Glasgow.
Launched :	24 Oct., 1935
Displacement :	1,335 tons (2,030 tons *full load*)
Dimensions :	312 (pp.), 323 (o.a.) × 33 × 8½ (*mean*) feet
Guns :	2—4 inch, 6—20 mm. AA. Oerlikon, 4 D.C.T.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 34,000 = 34 kts. (30 kts. sea speed)
Boilers :	3, of 3-drum type
Oil fuel :	455 tons
Complement :	200

Notes.—Former British destroyer. Served with distinction under Polish flag for greater part of war. Purchased by Netherlands in Dec., 1947. Underwent complece refit at the Nederlandse Dok en Scheepsbouw Mij. at Amsterdam, 1948-49. Commissioned Jan. 16, 1950, as seagoing anti-submarine training destroyer and training ship for engine-room personnel. Has box-like clinker screen on fore funnel. Reclassified as a frigate in 1953. Now carries pendant No. F 801.

1 Ex-British "River" Class.

1953, *A. & J. Pavia.*

OHAN MAURITS VAN NASSAU (*ex-Ribble*)

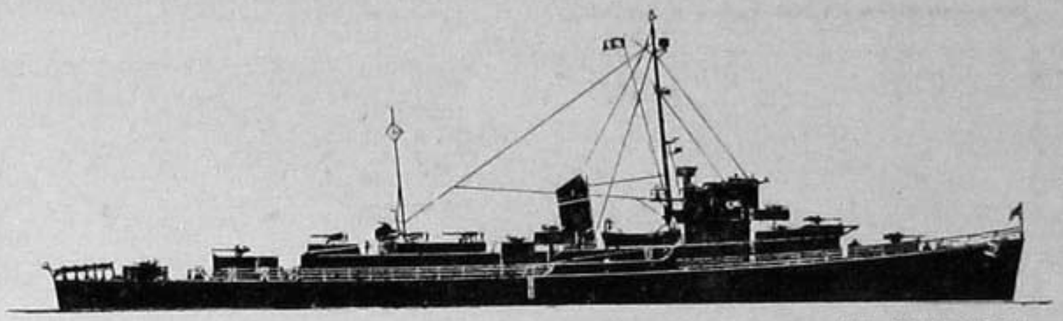
Builders :	Wm. Simons & Co. Ltd. Renfrew
Laid down :	29 Dec., 1941
Launched :	23 Apr., 1943
Completed :	25 June, 1943
Displacement :	1,463 tons (2,125 tons *full load*)
Dimensions :	301½ × 36½ × 14½ feet
Guns :	2—4·1 inch, 4—20 mm. Oerlikon
Machinery :	2 sets 4-cyl. triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers :	2, of 3-drum type
Complement :	120

Notes.—"River" class. Purchased by Royal Netherlands Navy, June 25, 1943, on completion in Great Britain. Pendant No. F 802.

Frigates—(*continued*).

6 "De Bitter" Class (Ex-U.S. DE Type).

DE BITTER. 1951, *Official.*



1951, R.N.N., *Official.*

DE BITTER (*ex-Rinehart, DE 196*)
DE ZEEUW (*ex-Eisner, DE 192*)
DUBOIS (*ex-O'Neill, DE 188*)
VAN AMSTEL (*ex-Burrows, DE 105*)
VAN EWIJCK (*ex-Gustafson, DE 182*)
VAN ZIJLL (*ex-Stern, DE 187*)

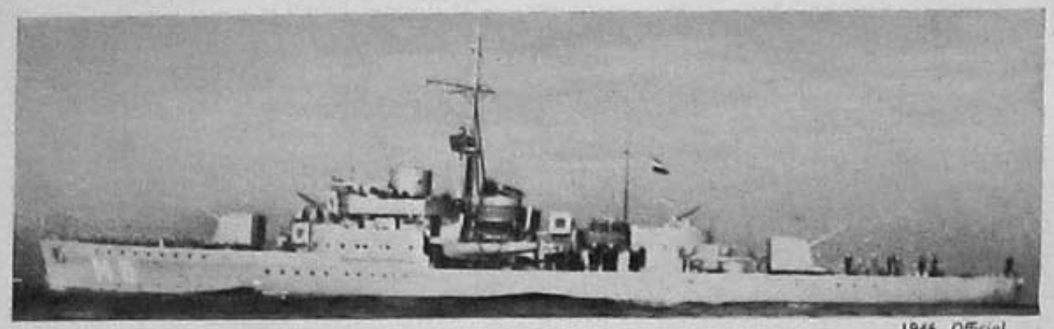
Displacement :	1,250 tons (1,900 tons *full load*)
Dimensions :	306 (*o.a.*) × 37 × 12 (*max.*) feet
Guns (original) :	3—3 inch, 50 cal. d.p., 6—40 mm. AA., 18—20 mm. AA., 8 D.C.T.
Machinery :	Diesel-electric. B.H.P. : 6,000 = 21 kts.
Complement :	220

Notes.—Ex-United States destroyer escorts acquired in 1950 under the Mutual Defense Assistance Program. First two units, *Van Amstel* and *De Bitter*, were commissioned in the R.N.N. 1 June, 1950, and delivered at Den Helder in Aug. 1950. Next pair delivered were *Dubois* and *Van Ewijck* on 23 Oct., 1950, and last two *De Zeeuw* and *Van Zijll* on 3 May, 1951, at Boston, U.S.A. First batch delivered have no tubes, but later units have.

Historical Notes.—*Dubois* honours memory of Captain Eland Dubois, naval hero of Anglo-Dutch war in 1666. *Van Ewijck* was named after Captain Willem van Ewijck, another naval hero of the Netherlands who was killed May 7, 1686.

Pendant No.	*Name*	*Builders*	*Launched*	*Completed*
F 807	*De Bitter*	Federal S.B. & D.D. Co., Port Newark	24 Oct., 1943	19 Dec., 1943
F 810	*De Zeeuw*		12 Dec., 1943	1 Jan., 1944
F 809	*Dubois*		14 Nov., 1943	6 Dec., 1943
F 806	*Van Amstel*	Dravo Corporation, Wilmington, Del.	8 Jan., 1944	12 Feb., 1944
F 808	*Van Ewijck*	Federal S.B. & D.D. Co., Port Newark	3 Oct., 1943	1 Nov., 1943
F 811	*Van Zijll*		31 Oct., 1943	1 Dec., 1943

Frigates—*continued.*

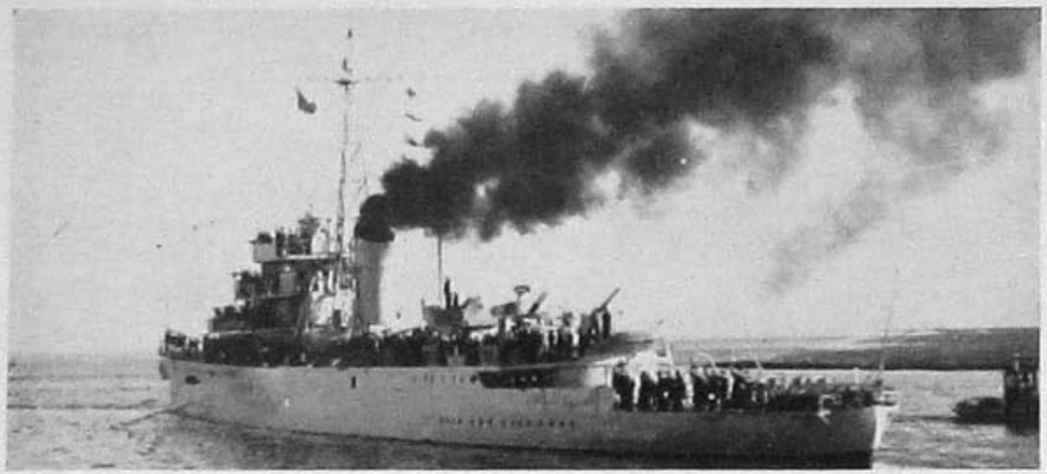


1946, *Official.*

VAN SPEIJK (*ex-K 3*)

Builders :	P. Smit, Jr., Machinefabrik & Scheepswerf, Rotterdam
Launched	22 Mar., 1941
Displacement :	1,268 tons (1,404 tons *full load*)
Dimensions :	246¾ (*pp.*), 255½ (*o.a.*) × 33½ × 10½ feet
Guns :	4—4·7 inch, 4—40 mm. AA., 6—20 mm. AA., 2 D.C.T.
Machinery :	2 sets Klöckner-Humboldt-Deutz 4-stroke Diesels. B.H.P. : 2,800 = 14·5 kts.
Oil fuel :	157 tons
Complement :	106

Notes.—Pendant No. F 805. A second ship of this type (*ex-K 2*), built by Werf Gusto (A. F. Smulders) at Schiedam, was scrapped owing to extensive war damage. A third unit (*K 1*) also built by P. Smit, Jr., was lost while in German hands.



1952, *Official.*

VAN KINSBERGEN

Builders :	Rotterdam Dry Dock Cc.
Laid down :	11 Sep., 1937
Launched :	5 Jan., 1939
Completed :	21 Aug., 1939
Displacement :	2,095 tons *standard* (2,703 tons *full load*)
Dimensions :	338 (*o.a.*) × 38 × 11 feet
Guns :	2—4·1 inch (105 mm. German pattern), 3—40 mm., 2—20 mm. AA.
Machinery :	Geared turbines by Gebr. Stork. S.H.P. : 16,000 = 25 kts.
Boilers :	2 Yarrow
Oil fuel :	128 tons
Complement :	220

Notes.—Ordered Nov., 1936. Rearmed 1951-52. Main armament formerly comprised 4—4·7 inch guns. Pendant No. F 804.

Frigates—*continued.*

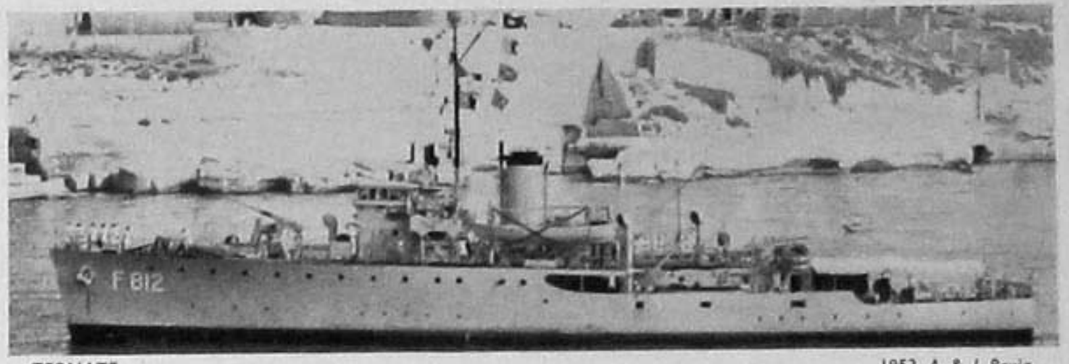
1946.

FLORES

Displacement :	1,734 tons
Dimensions :	248 × 37½ × 11½ feet
Guns :	3—5·9 inch, 2—40 mm., 2—20 mm. AA.
Machinery :	2 sets triple expansion. I.H.P. : 2,000 = 15 kts.
Boilers :	4 Yarrow
Oil fuel :	285 tons
Complement :	135

Notes.—Formerly sloop or gunboat. Launched 15 Aug. 1925, Fijenoord, Rotterdam. Now rated as frigate. Pendant No. F 803.

4 " Batjan " Class



TERNATE

1953, *A. & J. Pavia.*

BATJAN (*ex-Lismore*) **BOEROE** (*ex-Toowoomba*) **CERAM** (*ex-Burnie*) **TERNATE** (ex-*Kalgoorlie*)

Displacement :	815 tons (1,025 tons *full load*)
Dimensions :	162 (*pp.*), 186 (*o.a.*) × 31 × 8½ feet
Guns :	1—4 inch (*Boeroe* and *Ternate*), 1—40 mm. AA., 4—20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,000 = 15·5 kts.
Boilers :	2, of 3-drum type
Complement :	56 to 70

Notes.—Corvette type. Australian-built, and acquired in 1946. Formerly rated as escort minesweepers. *Batjan* has open bridge.

Pendant No.	*Name*	*Builders*	*Launched*
F 813	*Batjan*	Mort's Dock, Sydney	10 Aug., 1940
F 814	*Boeroe*	Walkers, Maryborough	26 Mar., 1941
F 815	*Ceram*	Mort's Dock, Sydney	25 Oct., 1940
F 812	*Ternate*	Broken Hill, Whyalla	7 Aug., 1941

Submarines (*Onderzeeboten*).

Note.—4 new submarines, voted for in 1949, are projected, for completion in 1956. Two to be built by Rotterdam Drydock Company and two by Wilton-Fijenoord, Schiedam. 900 to 950 tons standard displacement.

2 "Walrus" (Ex-"Balao") Class.

(Converted into "Guppies").

WALRUS (*ex-Icefish*) — **ZEELEEUW** (*ex-Hawkbill*)

Displacement :	1,526 tons (2,425 tons *submerged*)
Dimensions :	309 (*approx*) × 27 × 17 feet
Tubes :	10—21 inch (6 bow, 4 stern). 24 torpedoes.
Machinery :	G.M.2-stroke Diesels. B.H.P. : 6,500 = 20 kts. (*surface*) ; high submerged speed
Complement :	75 to 80

Notes.—Acquired on loan from U.S. Navy for period of five years. Transferred to Royal Netherlands Navy 21 Feb. and 21 April 1953, respectively.

Pendant No.	*Name*	*Builders*	*Launched*	*Converted*
S 802	*Walrus*	Manitowor S. B. Co.	20 Feb., 1944	1952
S 803	*Zeeleeuw*	Manitowor S. B. Co.	9 Jan., 1944	1952

2 "Dolfijn" Class.

TIJGERHAAI. 1951, *A. & J. Pavia.*

TIJGERHAAI (*ex-Tarn*) — **ZWAARDVIS** (*ex-Talent*)

Displacement :	1,320 tons *surface*, 1,570 tons *submerged*
Dimensions :	273½ × 26½ × 14½ feet
Guns :	1—4 inch, 2—20 mm. AA.
Tubes :	11—21 inch (8 bow, 3 stern ; 3 stern and 2 bow tubes are external)
Machinery :	2 Vickers Diesels. B.H.P. : 2,500 = 15 kts. *surface* ; H.P. : 1,800 = 8 kts. *submerged*
Complement :	65

Notes.—*Tijgerhaai* and *Zwaardvis* purchased from Great Britain. Fitted with snort. *Tijgerhaai* has streamlined asdic dome between the bow hydroplanes. *Dolphin* and *Zeehond*, acquired on loan from Royal Navy, were returned to Great Britain late 1953.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
S 812	*Tijgerhaai*	Vickers-Armstrong, (Barrow)	12 Jun., 1943	29 Nov., 1944	6 Apr., 1945
S 814	*Zwaardvisch*	Vickers-Armstrong, (Barrow)	13 Oct., 1942	17 Jul., 1943	4 Dec., 1944

3 "O" Class.

O 27. 1953, *Skyfotos.*

O 21 (*ex-K 21*) — **O 24** (*ex-K 24*) — **O 27** (*ex-UD 5, ex-O 27, ex-K 27*)

Displacement :	962 tons *surface*; 1,205 tons *submerged*
Dimensions :	255 × 21½ × 13 feet
Guns :	1—3·5 inch (O 24 and O 27), 1—20 mm. AA.
Tubes :	6—21 inch (4 bow, 2 stern)
Machinery :	2 Sulzer Diesels, by K. M. de Schelde. B.H.P. : 5,200 = 19·5 kts. *surface* H.P. : 1,000 = 9 kts. *submerged*
Complement	55

Notes.—O 27 differs slightly in appearance from others, having been completed by the Germans (who renumbered her *UD* 5), and ultimately commissioned under the Dutch flag on July 13, 1945. Obsolescent boats used only for training purposes.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
S 801	*O 21*	K. M. de Schelde	20 Nov., 1937	21 Oct., 1939	10 May, 1940
S 804	*O 24*	Rotterdam Dry Dock Co.	3 May, 1938	18 Mar., 1940	10 May, 1940
S 807	*O 27*	Rotterdam Dry Dock Co.	3 Aug., 1939	26 Sep., 1941	1 Nov., 1941

Minelayer (*Mijnenlegger*).

1953, *Official.*

WILLEM VAN DER ZAAN

Displacement :	1,267 tons *standard* (1,480 tons *full load*)
Dimensions :	229½ (*pp.*), 247 (*o.a.*), × 36½ × 11 feet
Guns :	2—4·7 inch, 50 cal., 4—40 mm. AA., 4—20 mm. AA., 2 M.G.
Machinery :	2 sets triple expansion. H.P. : 2,200 = 15 kts.
Boilers :	2 Yarrow
Complement :	144

Notes.—Mines: 92. Laid down 1937 by Netherlands Dry Dock Co. Launched 15 Dec. 1938. Completed Aug. 1939. Pendant No. N. 82.

Aircraft Direction Ship (*Vliegtuig-directieschip*).

1953, *Wright & Logan*

SOEMBA

Displacement :	1,683 tons (1,800 tons *full load*)
Dimensions :	248 × 37½ × 11½ feet
Guns :	2—40 mm., 2—20 mm.
Machinery :	2 sets triple expansion. I.H.P. : 2,000 = 15 kts.
Boilers :	4 Yarrow
Oil fuel :	285 tons

Notes.—Former sloop or gunboat. Launched 24, Aug., 1945 at Wilton Yard, Rotterdam. Converted for radar 1949. Reconstructed as aircraft direction ship at Rijkswerf, Willemsoord, 1950-51, bridge completely redesigned and enlarged. Pendant No. A 891.

Patrol Vessels.

Note.—7 new patrol vessels will be built with U.S. assistance under MDAP, 3 PCE in Netherlands, and PCE 1604, 1605, 1606, 1607 in U.S. Displacement : 600 tons standard, speed : 25 kts. 5 SC (submarine chasers) are also to be built in Netherlands with MDAP funds.

IAN VAN BRAKEL 1952, *Skyfotos.*

Builders :	K. M. de Schelde
Launched	8 Feb., 1936
Displacement :	970 tons (1,070 tons *full load*)
Dimensions :	181½ × 30 × 10 (*mean*), 13 (*max.*) feet
Guns :	2—3 inch, 4—20 mm. AA., 8 M.G., 2 rocket projectors, 4 D.C.T.
Machinery :	Triple expansion. 2 shafts. H.P. : 1,600 = 14 kts.
Boilers :	2 Yarrow
Oil fuel :	72 tons
Complement :	55

Notes.—Former patrol vessel converted into a surveying vessel at Surabaya. Commissioned 5 June, 1950. Now officially classified as a frigate after re-conversion during 1952-1953 at the Rijkswerf Willemsoord, Den Helder. Pendant No. : F 816.

1947, *Official.*

QUEEN WILHELMINA (*ex-U.S.S. PC 468*)

Builders :	Geo. Lawley & Sons, Nepcnsst, Mass.
Launched :	30 April, 1542
Displacement :	280 tons
Dimensions :	165 (*w.l.*), 173¾ (*o.a.*) × 23 × 6½ feet
Guns :	1—3 inch d.p., 1—40 mm. AA., 5—20 mm. AA.
Machinery :	Fairbanks Diesel. 2 shafts. B.H.P. : 2,880 = 20 kts.
Oil fuel :	60 tons
Complement :	55

Notes.—Former United States submarine chaser. Transferred to Netherland flag in Aug., 1942, under provisions of Lease-Lend Act, name *Queen Wilhelmina* being selected by President Roosevelt. Rated as Local Patrol Vessel. Pendant No. : P 801.

Wooden Coastal Minesweepers (*Mijnenvegers*).

AALSMEER	**GEMMERT**	**NAARDEN**
ABCOUDE	**GIETEN**	**OMMEN**
AXEL	**GIETHOORN**	**RHENEN**
BEEMSTER	**GOES**	**ROERMOND**
BEERTA	**GRIJPSKERK**	**SITTARD**
BEILEN	**HOGEZAND**	**STAPHORST**
BOLSWARD	**HOOGEVEEN**	**SNEEK**
BORCULO	**LEERSUM**	**STEENWIJK**
DOKKUM	**LISSE**	**VEERE**
DRACHTEN	**LOCHEM**	**VENLO**
DRUNEN	**MEPPEL**	**WAALWIJK**
ELST	**NAALDWIJK**	**WILDERVANK**
		WOERDEN

Displacement :	385 tons to 425 tons
Dimensions :	149¼ (*o.a.*) × 27½ × ... feet
Guns :	2—40 mm.
Machinery :	2 diesel engines, Fyenoord MAN Oder Werkspoor type = 14 kts.
Complement :	44

Notes.—Of 37 new minesweepers 32 will be built in the Netherlands. 18 are being built to the order of the U.S. (on American account under the terms of the Mutual Defense Assistance Programme) which will conform to the British design of coastal minesweepers. The Netherlands is building 14 minesweepers on her own account. Remaining 5 will be transferred from the U.S.N. to the R.N.N. in 1953.

Motor Minesweepers.

1951, *Official.*

GOEREE (*ex-R 240*) **SCHULPENGAT** (*ex-R 255*)
MALZWIN (*ex-R 268*) **STORTEMELK** (*ex-R 252*)
ROOMPOT (*ex-R 424*) **URK** (*ex-251*)
SCHIERMONNIKOOG (*ex-R 246*) **VLIETER** (*ex-R 290*)
SCHOUWEN (*ex-R 244*) **WALCHEREN** (*ex-R 220*)

Displacement :	123 tons (160 tons *full load*)
Dimensions :	129 × 22 × 5 feet
Guns :	1—40 mm., 1—20 mm. AA.
Machinery :	2 single acting, 4-stroke Diesels. B.H.P. 2,800 = 24 kts. (*max.*), 9 kts. (*min.*)
Oil fuel :	16·7 tons
Complement :	28

Notes.—Wood. Built 1942-44. Yacht-und Bootswerft Burmeister, Bremenburg and Swinemünde. Ex-German motor minesweepers of "R" type. Pendant Nos. : M 869-878, respectively. Transferred to R.N.N. in Nov., 1947. Schulpengut is used as a wreck locating vessel instead of RY2, which was returned to Great Britain in 1952.

KEETEN (*ex-Jakhals*) **MASTGAT** (*ex-Panter*) **ZIJPE** (*ex-Hermelijn*)

Notes.—Former motor launches converted into shallow draught minesweepers. Pendant Nos. : *M 881* (*ex-RP 104*), *M 882* (*ex-RP 105*), and *M 883* (*ex-RP 106*) respectively.

Motor Minesweepers—*continued.*

BORNDIEP. 1951, *Official.*

BORNDIEP (*ex-BYMS 2210*) **TEXELSTROOM** (*ex-BYMS 2156*)
DEURLOO (*ex-BYMS 2254*) **VLIESTROOM** (*ex-BYMS 2155*)
HOLLANDS DIEP (*ex-BYMS 2050*) **VOLKERAK** (*ex-BYMS 2188*)
MARSDIEP (*ex-BYMS 2038*) **WESTERSCHELDE** (*ex-BYMS 2046*)
OOSTERSCHELDE (*ex-BYMS 2230*) **ZUIDERDIEP** (*ex-BYMS 2048*)

Displacement :	223 tons
Dimensions :	136 × 24½ × 6 feet
Guns :	1—3 inch, 2—20 mm. AA.
Machinery :	Diesel. B.H.P. : 1,000 = 12 kts.
Oil fuel :	16 tons
Complement :	26

Notes.—Wood construction. All launched 1942-43 Pendant Nos: M 831-840, respectively.

VLIELAND. 1947, *Official.*

AMELAND (*ex-MMS 231*) **ROZENBURG** (*ex-MMS 292*)
BEVELAND (*ex-MMS 237*) **TERSCHELLING** (*ex-MMS 234*)
MARKEN II (*ex-MMS 54*) **TEXEL** (*ex-MMS 73*)
PUTTEN (*ex-MMS 138*)

Displacement :	219 tons (285 tons *full load*)
Dimensions :	105 (*pp.*), 119 (*o.a.*) × 23 × 9½ feet
Guns :	2 M.G.
Machinery :	Diesel. B.H.P. : 500 = 10 kts.
Complement :	18

Notes.—Wood. All launched 1942. Pendant Nos. : M 861-867, respectively. *Vlieland*, M 868, sank at Hollandia, New Guinea, Nov. 1951. Of the larger motor minesweepers, *Overflakker*, (ex-MMS 1046), *Tholen*, (ex-MMS 1014), and *Voorne*, (ex-MMS 1044) were scrapped, April-June 1952. *Duiveland* and *Ijselmonde* were lent to Indonesian Navy, 23 Feb., 1952.

Anti-submarine Experimental Ship.

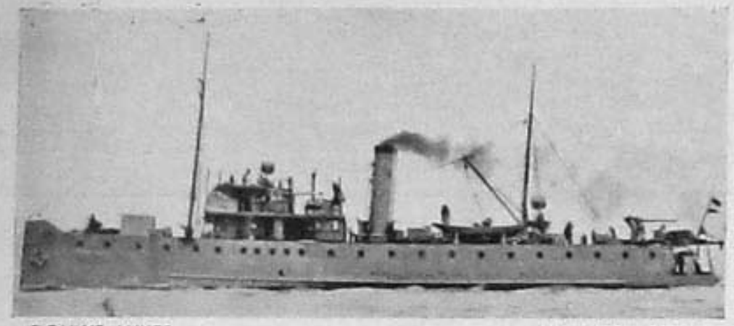
1953, *Skyfotos.*

PAETS VAN TROOSTWIJCK *(ex-Süd III, ex-Istre, ex-Thor Jr.)*

Displacement :	388 tons
Dimensions :	118 (*o.a.*), 110½ (*pp.*) × 22 × 12 feet
Machinery :	1 Triple expansion engine. I.H.P. : 550 = 10 kts.
Oil fuel :	73 tons
Complement :	21

Notes.—Ex-German whaler. Built 1924 at Akers Mekaniska Verksted. Sold 1937 to German owners. Allocated to Netherlands as reparations. Overhauled at the yard of the Nederlandse Dok en Scheepsbouw Mij. at Amsterdam in 1949, and commissioned as experimental Submarine Detection Ship, 1 July, 1949. Pendant No. : A 893.

Depot Ships.



DOUWE AUKES. *Added 1951, Official.*

DOUWE AUKES

Builders :	Werf Gusto, Schiedam
Launched :	23 Feb., 1922
Displacement :	687 tons
Dimensions :	180½ × 28½ × 10½ feet
Guns :	3—3 inch AA., 2 M.G.
Machinery :	2 sets triple expansion. 2 shafts. I.H.P. : 1,000 = 13 kts.
Coal :	115 tons
Complement :	50

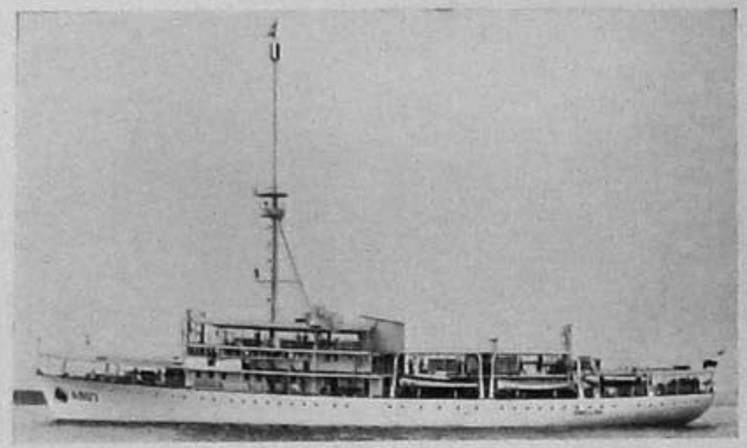
Notes.—Built under 1918 Programme. Minelayer, converted into an accommodation ship for minesweepers, 1950. Pendant No. A 893

MEDUSA

Builders :	Amsterdam Dockyard
Launched :	1911
Displacement :	593 tons
Dimensions :	163 × 29½ × 9 feet
Machinery :	I.H.P. : 800 = 11 kts.

Note.—Former minelayer refitted as accommodation and repair ship for submarine branch. Pendant No. A 890.

Surveying Vessels



SNELLIUS. 1953, *Official.*

	LUYMES	SNELLIUS
Displacement :	1,275 tons (1,334 tons *full load*)	
Dimensions :	234½ × 35½ × 7 (*max.*) feet	
Guns :	2—40 mm. AA., 4—20 mm. AA.	
Machinery :	Two 6-cycle, 4-stroke Stork Diesels. 2 shafts. B.H.P. : 2,000 = 15 kts.	
Complement :	105	

Notes.—Fitted for service in the tropics. *Snellius* built by P. Smit, jr., Rotterdam, is serving in New Guinea. *Luymes*, by Werft Gusto, Schiedam, is in reserve.

No.	*Name*	*Laid down*	*Launched*	*Completed*
A 902	*Luymes*	4 Apr. 1949	21 Apr. 1951	4 May. 1952
A 907	*Snellius*	3 Jan. 1949	14 Apr. 1951	4 Feb. 1952

ZEEFAKKEL

Laid down :	Sept., 1949
Launched :	21 Jul., 1950
Completed :	22 Mar., 1951
Displacement :	368 tons
Dimensions :	149 (*o.a.*) × 24½ × 7 (*max.*) feet
Machinery :	Two 8-cycle, 4-stroke Smit M.A.N. Diesels. 2 shafts. B.H.P. : 640 = 12 kts.
Complement :	29

Notes.—Originally ordered from Vuyk, transferred later to J. & K. Smit Kinderdijk. Commissioned 16 Mar., 1951, for service in Dutch waters. Replaces former ship of the name which is returned to the Pilot Service. Pendant No. A 903.

DREG I	DREG II	DREG III	DREG IV
Displacement :	482 tons *full load*		
Dimensions :	65½ × 15 × 5 feet		
Machinery :	H.P. : 120 = 10 kts.		
Complement :	10		

Pendant No.	*Name*	*Launched*	*Completed*
A 909	*Dreg I*	15 May 1950	July 1950
A 910	*Dreg II*	15 May 1950	July 1950
A 919	*Dreg III*	21 Aug. 1950	Sept. 1950
A 920	*Dreg IV*	21 Aug. 1950	Sept. 1950

Surveying Vessels *(continued).*

1947 *Photo.*

HYDROGRAAF

Builders :	Fijenoord, Rotterdam
Launched	1910
Displacement :	297 tons
Dimensions :	132½ × 22 × 9½ feet
Machinery :	Triple expansion. I.H.P. : 360 = 9 kts.
Coal :	30 tons
Complement :	23

Note.—Pendant No. : A 901.

Gate Vessels

JAN VAN GELDER.

ABRAHAM CRIJNSSEN ABRAHAM VAN DER HULST	JAN VAN GELDER PIETER FLORISZ
Displacement :	460 tons (525 tons *full load*)
Dimensions :	183 × 25½ × 7 feet
Guns :	1—57 mm., 4—20 mm. AA.
Machinery :	Triple expansion. I.H.P. : 1,690 = 15 kts.
Boilers :	2 Yarrow
Oil fuel :	110 tons
Complement :	47

Notes.—Former minesweepers. Now rated as local vessels. Being converted to gate vessels.

Pendant Nos.	*Name*	*Builders*	*Launched*
A 925	*Abraham Crijnssen*	Werf Gusto	22 Sep., 1936
A 928	*Abraham van der Hulst*		27 May, 1937
A 927	*Jan van Gelder*		17 Apr., 1937
A 926	*Pieter Florisz*	Smit	11 May, 1937

Landing Craft.

1946, *Official.*

L 9601	L 9604	L 9607	L 9611
L 9602	L 9605	L 9608	L 9612
L 9603	L 9006		

Note.—Ex-LCT. Nos. : 9607, 9608, 9612 in New Guinea waters.

L 9501	L 9505	L 9509	L 9513
L 9502	L 9506	L 9510	L 9514
L 9503	L 9507	L 9511	L 9514
L 9504	L 9508	L 9512	L 9516

Note.—Ex-LCA.

L 9661	L 9662

Note.—Ex-LCM.

Supply Ships (ex-Landing Ships).

WOENDI (ex-*Steven van der Hagen*, ex-*LST* V, ex-*LST* 1034)

Displacement :	1,625 tons
Dimensions :	316 (*w.l.*), 328 (*o.a.*) × 50 × 14 (*max.*) feet
Machinery :	Diesel. 2 shafts. B.H.P. : 1,700 = 11 kts.
Complement :	48

Note.—Used as seagoing store ship at Den Helder. Pendant No. : A 832.

1950.

PELIKAAN (ex-H.M.S. *Thruster*, ex-*LST*)

Builders :	Harland & Wolff
Laid down :	31 Jul., 1941
Launched :	24 Sep., 1942
Completed :	14 Mar., 1943
Displacement :	3,616 tons (5,410 tons *full load*)
Dimensions :	390 × 49 × 13 feet
Guns :	12—20 mm. AA.
Machinery :	Turbine. S.H.P. : 7,000 = 17 kts.
Oil fuel	2,100 tons (*max.*)

Notes.—Purchased from Great Britain 1943. No armament while used as a store and accomodation ship at Den Helder. Pendant No. : A 830. Sister ship of H.M.S. Boxer.

Boom Defence Vessel.

BARNEHURST

Displacement :	750 tons (960 tons *full load*)
Dimensions :	173½ (*o.a.*) × 32½ × 9½ (*max.*) feet
Machinery :	Triple expansion. I.H.P. 850 = 12 kts.

Notes.—Boom Defence Vessel on loan from Great Britain. Employed in Pilot Service.

Netlayer.

1953, *Official.*

CERBERUS

Builders :	Bethlehem Steel Company, Staten Island
Launched :	May 1952.
Displacement :	545 tons *light* (800 tons *full load*)
Dimensions :	165 × 33 × 10 feet
Machinery :	Diesel Electric. 1 shaft.

Notes.—Launched bow first. Commissioned 1 Nov. 1952 in U.S.A. and transferred from the United States Navy in December 1952. Pendant No. : A 895.

Tenders.

MERCUUR

Builders :	Rijkswerf Willemsoord
Launched :	26 Feb., 1936
Displacement :	265 tons *standard* (284 tons *full load*)
Dimensions :	137½ (*pp.*), 140 (*o.a.*) × 23 × 9 feet
Machinery :	Triple expansion. I.H.P. : 325 = 12 kts.
Complement :	32

Notes.—Tender to Torpedo school. Pendant No. A 829.

Y 807 (ex-*RC* 11, ex-*De Mok* I)

Builders :	Rijkswerf Willemsoord
Launched :	1939
Displacement :	137 tons (162 tons *full load*)
Dimensions :	137½ (*o.a.*), 114 (*pp.*) × 20½ × 5½ feet
Machinery :	2 Kromhout Diesels. B.H.P. : 400 = 12 kts.
Complement :	5

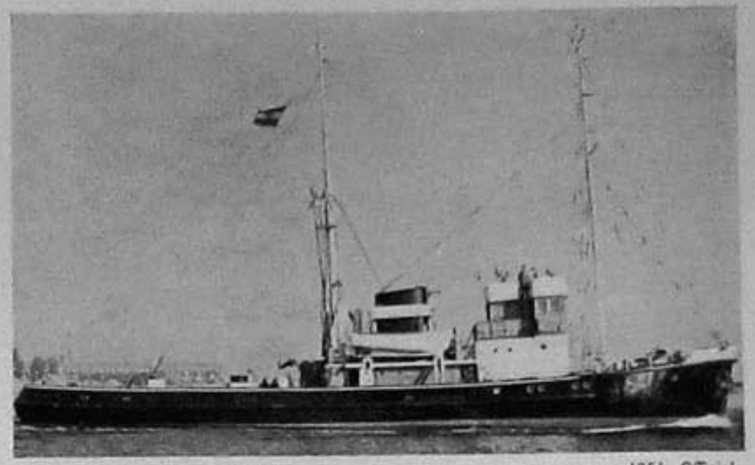
Notes.—Equipped with water monitors for fire fighting. Midshipmen tender.

Seagoing Tugs.

ORKAAN

Builders :	Werf Gebr. Fikkers, Martenshoek
Launched :	1949
Dimensions :	91½ × 20½ × 10½ feet
Machinery :	M.A.N. Diesel. B.H.P. : 1,200 = 12 kts.
Complement :	12

Notes.—Pendant No. A 837. Commissioned Nov. 7, 1949.



1951, *Official.*

HERCULES (ex-*Walcheren XII*, ex-*Atlas*)

Builders :	Nobiskrug Dockyard, Rendsburg
Launched :	1944
Displacement :	600 tons
Dimensions :	142 × 29 × 15 feet
Machinery :	M.W.M. Diesel. B.H.P. : 1,000 = 12 kts.
Complement :	18 (24 as diving tender)

Notes.—Built as a tug for the German Air Force Flotilla. Completed in Amsterdam in 1950. Fitted with pumps and salvage gear. Used as salvage vessel and diving tender. Commissioned 18 Jan. 1951. Pendant No. : A 828.

Training Ships.

HOBEIN (ex-*Doorn Bos*, ex-*Dornbusch*)

Displacement :	132 tons
Dimensions :	92 (*o.a.*), 83½ (*pp.*) × 19½ × 5½ feet
Machinery :	Diesel. B.H.P. : 250 = 8·5 kts.
Complement :	10

Notes.—Formerly German. Is used as a navigational training ship for midshipmen. Pendant No. : P 882. Renamed *Hobein* July 1952.

URANIA (ex-*Tromp*)

Dimensions :	72 × 16½ × 10 feet
Machinery :	Diesel. H.P. : 75

Notes.—Schooner used for training cadets in seamanship. Commissioned April 23, 1938.

Weather Observation Ships.

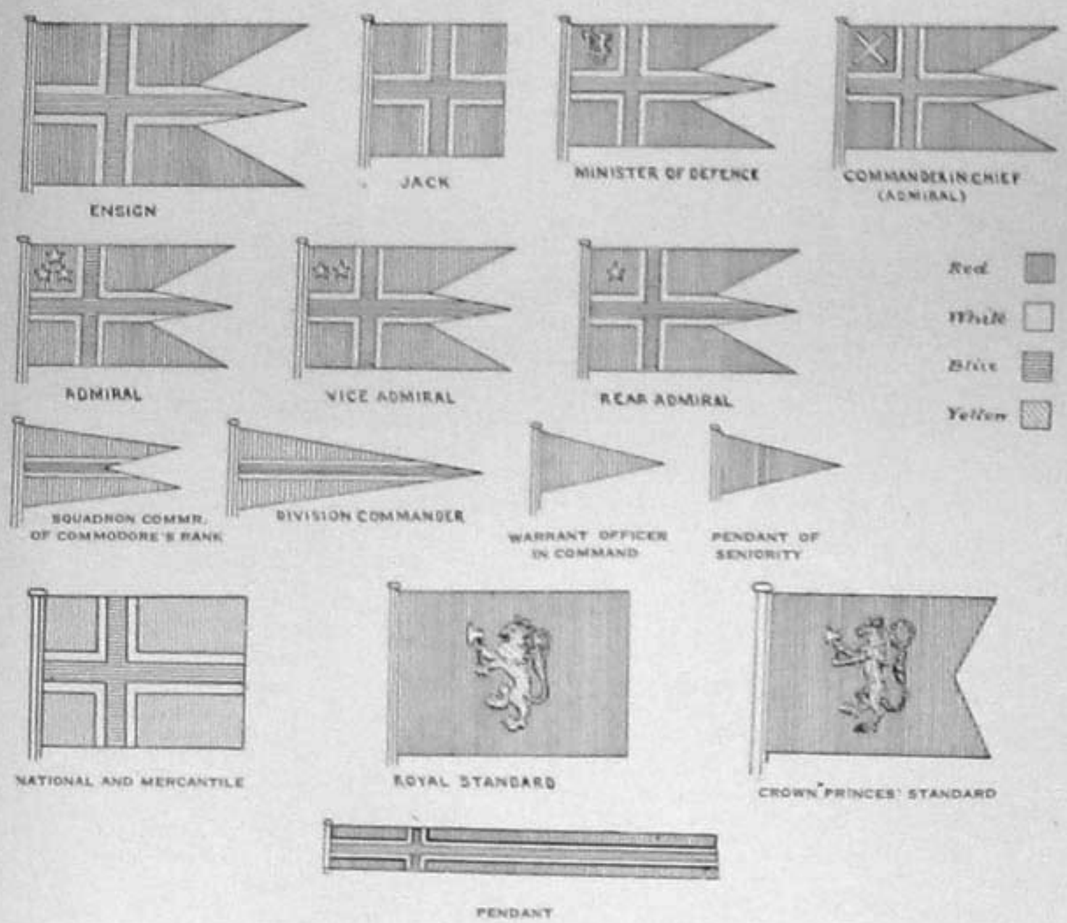
CIRRUS (ex-U.S.S. *Abilene*) **CUMULUS** (ex-U.S.S. *Forsyth*)

Displacement :	1,100 tons
Dimensions :	304 (*o.a.*) × 37½ × 12 feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 18 kts.

Notes.—Controlled by Ministry of Transport and manned by mercantile personnel. Former U.S. frigates, PF 58 and PF 102, respectively.

NORWAY

Flags.



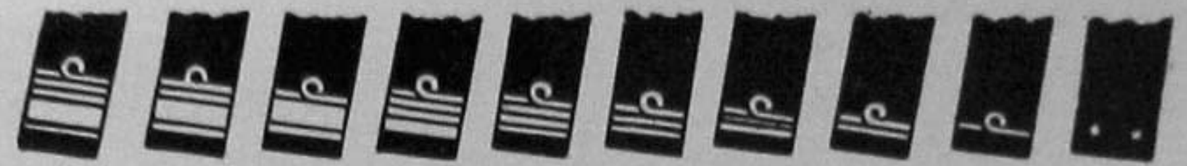
Administration.

Minister of Defence : Mr. N. Langhelle.
Parliamentary Secretary : Mr. O. Brunvand.
Permanent Under-Secretary : Mr. J. Modalsli.
Commander-in-Chief : Vice-Admiral S. V. Storheill, D.S.C. & 2 Bars.
Chief of Naval Staff : Commodore R. K. Andresen, O.B.E.

Naval Attaché, London : Captain L. H. R. Lund, D.S.C.

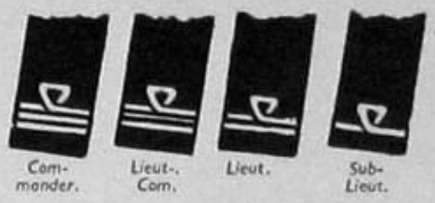
Norwegian warships are referred to officially with the prefix K.N.M., equivalent to H.M.S.

Uniforms.



Peaks of Caps of Commanders and higher ranks, formerly plain, are now decorated with gold lace as in British Navy.

Reserve Officers



Other branches have same insignia, but with colours between stripes as follows : *Engineers*, purple ; *Surgeons*, red ; *Supply Officers*, white ; *Technical and Special branches*, green.

* *Note.*—2 Stars, klasse 2, Midshipman ; 1 star, klasse 1, Cadet.

Five Year Programme.

The 1951-1955 programme provides for additions to the Navy including a battle damage repair ship, two minelayers, three submarines, and 13 motor torpedo boats to replace the former British Fairmile " D " type. The torpedo boats of the "Sleipner" class are being modernised as escort vessels and Norway has taken over two British escort destroyers (frigates) of the " Hunt " class. The building programme includes five minelayers with American engines and equipment.

Personnel.

4,000 officers and ratings.

Mercantile Marine.

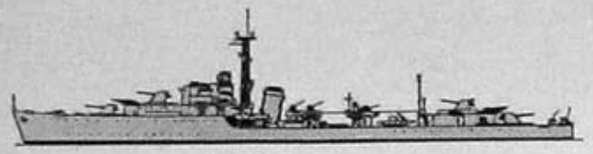
Lloyd's Register appendix, 1953 : 2,183 ships of 5,906,789 tons gross.

* Scale : 150 ft = 1 inch

OSLO.

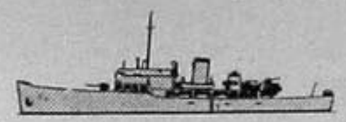
ARENDAL.

GLOMMA, TANA.

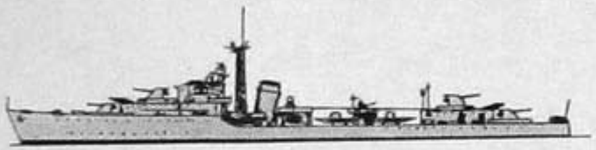


BERGEN *Class.*

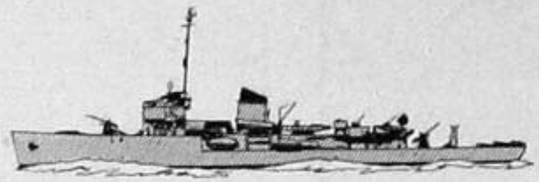
ANDENES *Class.*



NORDKAPP, SENJA.

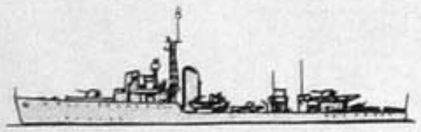


STORD.



SLEIPNER *Class*

OTRA*



NARVIK.*

ULA.

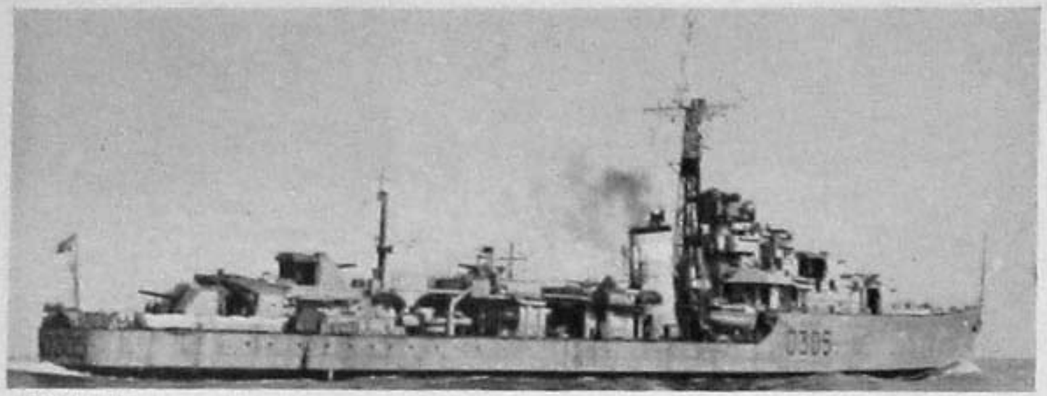
NORGE.

198R

Destroyers.

4 " Oslo " Class.

1953, *Skyfotos.*



TRONDHEIM. 1953, *R.Nor.N. Official.*

BERGEN (*ex-Cromwell, ex-Cretan*) **OSLO** (*ex-Crown*) **STAVANGER** (*ex-Crystal*) **TRONDHEIM** (*ex-Croziers*)

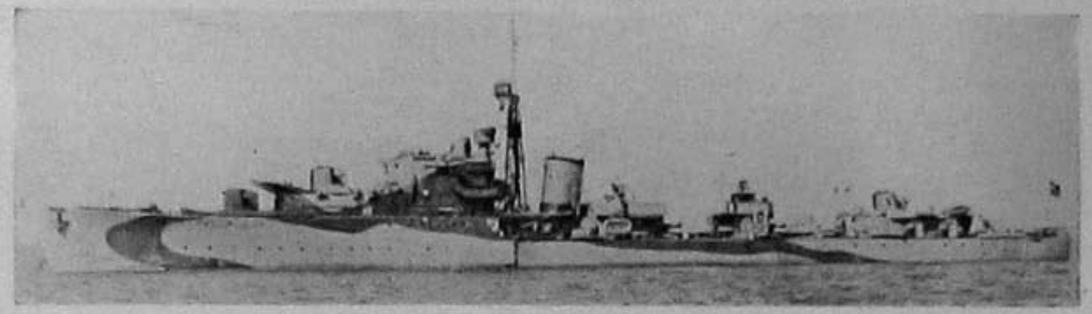
Displacement :	1,710 tons (Respective *deep load* figures are 2,500, 2,527 and 2,545 tons last two)
Dimensions :	362½ × 35½ × 10 feet
Guns :	4—4·5 inch d.p., 4—40 mm. AA., 4—20 mm. AA., 2—2 pdr.
Tubes :	4—21 inch (quadrupled)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts. (trial speeds 31·5 kts. first two, 32·8 others).
Boilers :	2, of 3-drum type
Complement :	235

Notes.—Purchased from Great Britain in 1946. Construction of these destroyers is entirely welded. *Oslo* is fitted as Leader.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 304	*Bergen*	Scot's S.B. & Eng. Co. Ltd., Greenock.	24 Nov., 1943	6 Aug., 1943	
D 303	*Oslo*	Scot's S.B. & Eng. Co. Ltd., Greenock.	16 Jan., 1944	19 Dec., 1945	17 Apr., 1947
D 306	*Stavanger*	Yarrow & Co. Ltd., Scotstoun, Glasgow.	13 Jan., 1944	12 Feb., 1945	
D 305	*Trondheim*	Yarrow & Co. Ltd., Scotstoun, Glasgow.	26 Oct., 1943	19 Sep., 1944	30 Nov., 1945

Destroyers—*continued.*

1 " Stord " Type.



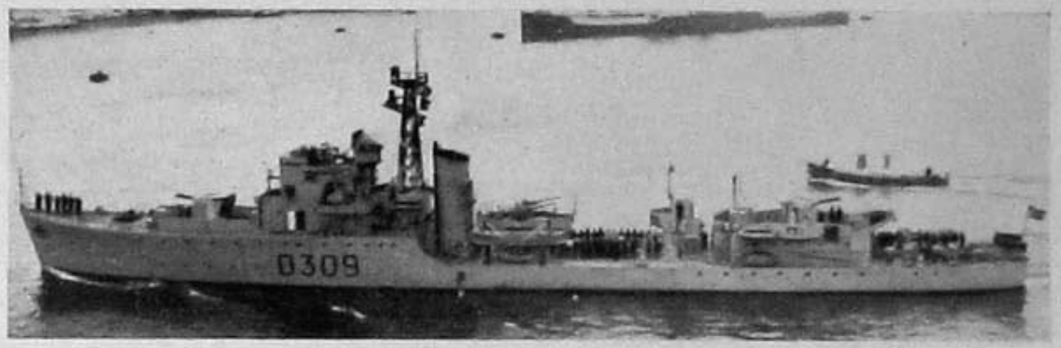
1943, Official.

STORD (*ex- Success*)

Builders :	J. Samue White & Co. Ltd., Cowes
Laid down	25 Feb., 1942
Launched :	3 Apr., 1943
Completed	6 Sep., 1943
Displacement:	1,796 tons (2,527 tons *full load*)
Dimensions :	362½ × 35½ ×10 feet
Guns :	4—4·7 inch, 2—40mm., 8—20 mm. AA.
Tubes :	8—21 inch (quadrupled)
Machinery	Parsons geared turbines. 2 shafts. S.H.P. : 40,000 = 34 kts. (sea speed 32 kts.)
Boilers :	2, of 3-drum type
Complement :	221

Note.—Purchased from Great Britain. Pendant No. D 300.

1 " Hunt " Type III (*Escort Destroyer*).



1953, *A. & J. Pavia.*

NARVIK (*ex-Glaisdale*)

Builders :	Cammell Laird & Co., Ltd., Birkenhead
Laid down	4 Feb., 1941
Launched	5 Jan., 1942
Completed :	12 Jun., 1942
Displacement :	1,050 tons (1,430 tons *full load*)
Dimensions :	264½ (pp.), 280 (o.a.) × 31½ × 7½ feet
Guns :	4—4 inch AA., 5—2 pdr. pompom, 6—20 mm. AA.
Tubes :	2—21 inch. 2 D.C.T.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 19,000 = 29 kts. (trial speed 26 kts.)
Boilers :	2, of 3-drum type
Oil fuel :	280 tons
Complement :	185

Notes.—Purchased from Great Britain. Of former British " Hunt " class, Type III escort destroyers, later re-rated as frigates. Now has short lattice foremast in place of her former tripod mast. Pendant No. D 309.

3 "Hunt" Type II (*Escort Destroyers*).

ARENDAL. 1953, Wright & Logan.

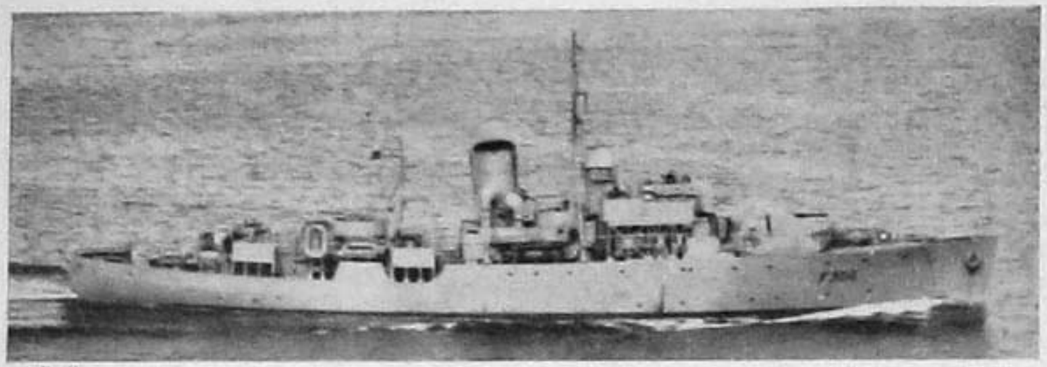
ARENDAL (ex-*Bedsworth*) **HAUGESUND** (ex-*Beaufort*) **TRONSÖ** (ex-*Zetland*)

Displacement :	1,050 tons (1,490 tons *full load*)
Dimensions :	280 (o.a.) × 31½ × 7¾ feet
Guns :	6—4 inch AA., 2—20 mm. Oerlikon, 1—2 pdr.
Machinery :	Parsons geared turbines, 2 shafts. S.H.P. : 19,000 = 25 kts.
Boilers :	2, of 3-drum type
Oil fuel :	280 tons
Complement :	208

Notes.—*Arendal* was purchased from Great Britain in 1945. Other two transferred by Great Britain end of 1952 on loan to the Royal Norwegian Navy for 4 years. Of former British "Hunt" class, Type II escort destroyers, later re-rated as frigates. *Arendal* was used as Cadets' Training Ship.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
D 310	*Arendal*	Cammell Laird & Co., Ltd., Birkenhead	15 May 1940	17 Mar. 1941	18 Aug. 1941
	Haugesund	Cammell Laird & Co., Ltd., Birkenhead	17 July 1940	9 June 1941	3 Nov. 1941
	Tronsö	Yarrow & Co., Ltd., Scotstoun, Glasgow	2 Oct. 1940	7 Mar. 1942	27 June 1942

Frigates (*Corvette Type*).
3 "Andenes" Class.



SÖRÖY. 1951, *R.Nor.N., Official.*

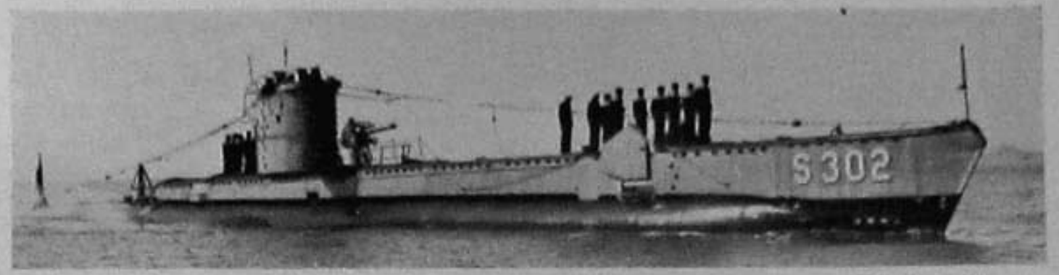
ANDENES (ex-*Acanthus*) **NORDKYN** (ex-*Buttercup*) **SÖRÖY** (ex-*Eglantine*)

Displacement :	1,020 tons (1,250 tons *full load*)
Dimensions :	190 (pp.), 205 (o.a.) × 33 × 14½ (*max.*) feet
Guns :	1—4 inch AA, 1—2 pdr. pompom, 6—20 mm., 2 M.G. and 4 D.C.T.
Machinery :	Triple expansion. I.H.P. : 2,750 = 16 kts.
Boilers :	2 S.E.
Complement :	85

Notes.—Former British "Flower" class corvettes, later re-rated as frigates. All purchased from Great Britain.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 307	*Andenes*	Ailsa S.B. Co Ltd., Troon	21 Dec., 1939	26 May, 1941	1 Oct., 1941
F 309	*Nordkyn*	Harland & Wolff, Belfast	17 Dec., 1940	10 Apr., 1941	24 Apr., 1942
F 308	*Söröy*	Harland & Wolff, Belfast	16 Jan., 1941	11 Jun., 1941	29 Aug., 1941

Submarines (*Undervannsbåter*).



UTSTEIN. 1952, *Wright & Logan.*

UTHAUG (ex-*Votary*) **UTSIRA** (ex-*Variance*) **UTSTEIN** (ex-*Venturer*) **UTVÆR** (ex-*Viking*)

Displacement :	545 tons *surface* ; 735 tons *submerged*
Dimensions :	206 × 16 × 12¼ feet
Guns :	1—3 inch, 3 M.G.
Tubes :	4—21 inch (bow)
Machinery :	2 Davy Paxman Diesels, B.H.P. : 800 = 13 kts. *surface* ; 2 electric motors. H.P. : 760 = 9 kts. *submerged*
Oil fuel :	56 tons
Complement :	37

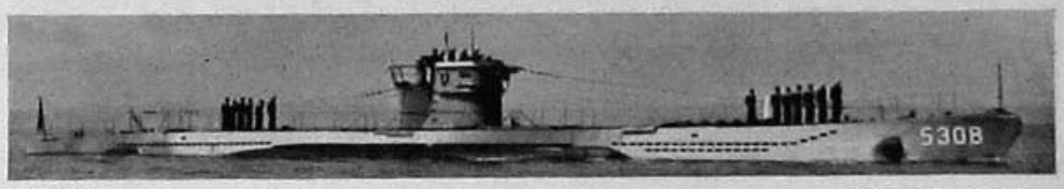
Notes.—All purchased from Great Britain. Named after features of the Norwegian seaboard.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
S 304	*Uthaug*	Vickers-Armstrongs (Tyne)	21 Apr., 1943	21 Aug., 1944	13 Dec., 1944
S 300	*Utsira*	Vickers-Armstrongs (Barrow)	21 May, 1943	22 May, 1944	24 Aug., 1944
S 302	*Utstein*	Vickers-Armstrongs (Barrow)	25 Aug., 1942	4 May, 1943	19 Aug., 1943
S 303	*Utoer*	Vickers-Armstrongs (Barrow)	3 Sep., 1942	5 May, 1943	30 Aug., 1943

ULA (ex-H.M.S. *Varne*)

Builders:	Vickers-Armstrongs (Barrow)
Laid down:	29 Apr. 1942
Launched:	22 Jan., 1943
Completed:	3 Apr., 1943
Displacement :	630 tons (*surface*), 732 tons (*submerged*)
Dimensions :	197 × 16 × 15 feet
Guns :	1—3 inch
Torpedo tubes :	4—21 inch
Machinery :	B.H.P. : 615 = 11·25 kts. *surface* ; H.P. : 825 = 10 kts. *submerged*

Notes.—Purchased from Great Britain. *Ula* is name of the birthplace of Ulabrand, the navigator. Pendant No. S 301.



KYNN. 1952, *Wright & Logan.*

KAURA (ex-*U 995*) **KYA** (ex-*U 926*) **KYNN** (ex-*U 1202*)

Displacement :	757 tons (*surface*), 857 tons (*submerged*)
Dimensions :	220 × 20 × 15 feet
Guns :	1—37 mm., 4—20 mm.
Torpedo tubes :	5—21 inch
Machinery :	Diesels, B.H.P. : 3,200 = 17 kts, *surface*. Electric motors H.P. : 750 = 7·5 kts. submerged

Notes.—Ex-German *VII C* Type. All equipped with snort. *Kaura* was allocated to Great Britain and handed to Norway. Acquired Oct. 1948. Have all undergone major refit.

Pendant No.	*Name*	*Builders*	*Launched*	*Completed*
S 309	*Kaura*	Blohm & Voss, Hamburg	1941	1942
S 307	*Kya*	Neptun, Rostok	1942	1943
S 308	*Kynn*	Schichau, Danzig	1942	1943

1978

Patrol Vessels.

5 "Sleipner" Class.

BALDER **GYLLER** **ODIN** **SLEIPNER** **TOR**

Displacement :	625 tons *standard* (750 tons *max*)
Dimensions :	236½ (*w.l.*) 243½ (*o.a.*) × 25½ × 7 (*mean*), 9 (*max.*) feet
Guns :	3—3 inch, 2—40 mm. AA., 2 M.G., 4 D.C.T.
Tubes :	Removed
Machinery :	2 De Laval geared turbines. 2 shafts S.H.P. : 12,500 = 30 kts. (sea speed 25 kts.)
Boilers :	2 water-tube, working pressure 450 lbs.
Oil fuel :	100 tons
Complement-	104

Notes.—While in German hands *Gyller*, *Odin*, *Balder* and *Tor* were known as *Löwe*, *Leopard*, *Panther* and *Tiger*. Formerly classified as torpedo boats. Re-rated as escort vessels 1951. *Balder* and *Gyller* converted to escort vessels in 1952. *Odin*, *Sleipner* and *Tor* to be converted 1953-54.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*
F 304	*Balder*	Horten Naval Yard	1939	11 Oct. 1939
F 301	*Gyller*	Horten Naval Yard	1936	2 Jul. 1938
F 302	*Odin*	Horten Naval Yard	1938	17 Jan. 1939
F 300	*Sleipner*	Horten Naval Yard	1933	7 May 1936
F 303	*Tor*	Frederikstad M.V.	Nov. 1938	1939

Battle Damage Repair Ship.

(Verkstedsskip).

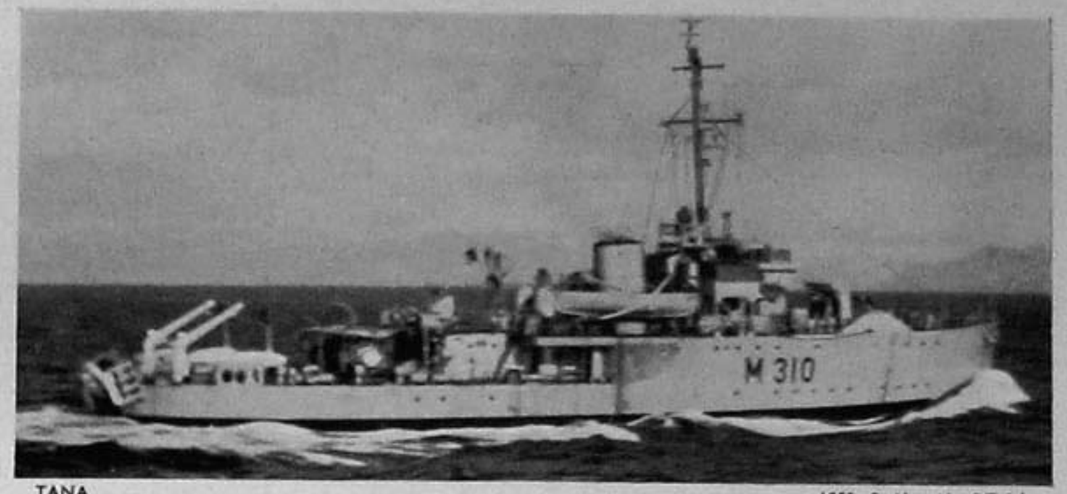
ELLIDA (ex-U.S.S. *ARB 13*, ex-U.S.S. *LST 50*)

Built :	Pittsburgh
Launched :	1943
Completed :	12 Nov., 1943
Displacement :	1,625 tons *standard* (3,500 tons *full load*)
Dimensions :	316 (*w.l.*), 327½ (*o.a.*) × 50 × 12 (*max.*) feet
Guns :	12—40 mm. AA., 12—20 mm. AA.
Machinery :	Diesels. 2 shafts. B.H.P. : 1,800 = 11 kts.
Complement :	375

Notes.—Former United States tank landing ship first commissioned 1943. Converted to battle damage repair ship in 1952 by Puget Sound Bridge & Dredging Co. Taken over by Royal Norwegian Navy at Seattle 14 Nov. 1952 under the Mutual Defense Assistance Program, and will serve as battle damage repair ship for Norwegian naval surface vessels and craft. *Ellida* has been a tradditional name for Norwegian naval ships for more than a century.

Fleet Minesweepers.

2 "Glomma" Class.



TANA

1953, *R. Nor. N., Official.*

GLOMMA (*ex-H.M.S. Bangor*) **TANA** (*ex-H.M.S. Blackpool*)

Displacement :	590 tons (790 tons *full load*)
Dimensions :	162 × 28 × 8½ feet
Guns :	1—3 inch AA., 3—20 mm. AA., 4 M.G.
Machinery :	2 sets. Diesels. 2 shafts. B.H.P. : 2,000 = 16 kts.
Complement :	60

Note.—Both purchased from Great Britain.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Glomma	Harland & Wolff (Govan)	19 Sep. 1939	23 May 1940	4 Nov. 1940
Tana	Harland & Wolff (Govan)	19 Sep. 1939	4 Jul. 1940	7 Feb. 1941

Weather Ships (ex-*Frigates*).

POLARFRONT I (*ex-Saxifrage*) **POLARFRONT II** (*ex-Bryony*)

Displacement :	1,060 tons *standard* (1,300 tons *full load*)
Dimensions :	205 (*o.a.*) × 33 × 14½ (*max.*) feet
Machinery :	Triple expansion. I.H.P. : 2,750 = 16·5 kts.
Boilers :	2 S.E.
Complement :	46

Note.—Ex-British "Flower" class corvettes employed as weather ships.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Polarfront I	Charles Hill & Sons, Ltd., Bristol	1 Feb. 1941	24 Oct. 1941	6 Feb. 1942
Polarfront II	Harland & Wolff, Ltd., Belfast	16 Nov. 1940	15 Mar. 1941	16 June 1942

Motor Torpedo Boats.

6 New Construction.

Displacement :	72 tons
Dimensions :	Length 87 feet
Machinery :	Packard engines
Speed :	32 kts. (sea), 41 kts. (*max.*)

Notes.—1 prototype M.T.B. built 1952 by A. S. Westermoens Batbyggeri, Mandal. Wood. 5 others of same type to be built 1953-54.

10 Ex-U.S. Type.

1953, *R. Nor. N., Official*

Displacement :	45 tons (53 tons *full load*)
Dimensions :	80 × 20½ × 5½ feet
Guns :	1—40 mm., 2—20 mm., 2 M.G.
Tubes :	2—21 inch
Machinery :	Packard petrol engines. 3 shafts. B.H.P.: 4,050 = 40 kts.
Complement :	17

Note.—The Royal Norwegian Navy received 10 M.T.B.s from the U.S.A. in 1951. All Elco boats.

1949, *Official.*

FALK (*ex-MTB 704*) **LOM** (*ex-MTB 719*) **SKARV** (*ex-MTB 721*)
JO (*ex-MTB 713*) **RAVN** (*ex-MTB 720*) **STEGG** (*ex-MTB 722*)
KJELD (*ex-MTB 716*)

Displacement :	102 tons (110 tons *full load*)
Dimensions :	115 × 21½ × 6 feet
Guns :	1—6 pdr., 4—20 mm. AA., 4 M.G.
Tubes :	4—18 inch
Machinery :	4 Packard engines. B.H.P. : 4,800 = 32 kts. (sea speed, 27 kts.)

Notes.—Fairmile D type. All launched 1944. Purchased from Royal Navy. *Hauk* caught fire and sank, Nov. 23, 1948. Total loss.

Coastal Minesweepers.

7 New Construction.

Displacement :	370 tons
Dimensions :	144 × 26½ × — feet
Speed :	14 kts.

Notes.—Five wooden coastal minesweepers of the non-magnetic AMS type are being built in Norway (U.S. hull numbers 1601, 1602, 1603, 1604, 1605), engines in U.S. To complete 1954. 2 NATO class AMS 60 class motor minesweepers (U.S. hull numbers AMS 131, 132, building in U.S. under MDAP. To complete 1954.

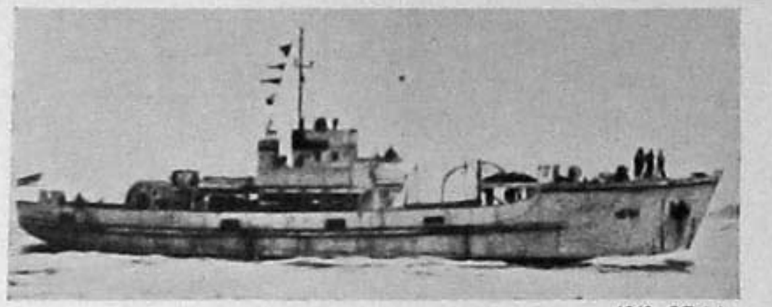
NYMS 379. 1949, *Official.*

NYMS 247 **NYMS 377** **NYMS 380** **NYMS 406**
NYMS 305 **NYMS 379** **NYMS 381**

Displacement :	300 tons (325 tons *full load*)
Dimensions :	136 × 24½ × 8½ feet
Guns :	1—3 inch, 2—20 mm. AA., 2 M.G.
Machinery :	Diesel. B.H.P. : 1,000 = 15 kts. (12·5 kts. on trials, 11 kts. economical)
Oil fuel :	16 tons
Complement :	26

Notes.—Wood. U.S. YMS type. All transferred to the Royal Norwegian Navy under Lend-Lease scheme. *NYMS 382* was the last Allied naval war casualty. Torpedoed in Bay of Biscay 7 Mar. 1945 by U-boat.

Modified Motor Minesweepers.



1949, *Official.*

ORKLA (*ex-MMS 1085*) **VEFSNA** (*ex-MMS 1086*)

Displacement :	360 tons (430 tons *full load*)
Dimensions :	126 (*pp.*), 140 (*o.a.*) × 26 × 10½ feet
Guns :	2—20 mm. AA., 4 M.G.
Machinery :	Diesel. B.H.P. : 500 = 9·5 kts.
Complement :	19

Notes.—Wood. Former motor minesweepers. Purchased from Great Britain in June 1946. Now equipped as X-ray ships for T.B. testing. Pendant Nos. M 313 and M 314 respectively.

Coastal Minelayers.

2 LSM Type

VALE (*ex-U.S.S. LSM 492*) **VIDAR** (*ex-U.S.S. LSM 493*)

Displacement :	743 tons *light*, 1,100 tons *full load*
Dimensions :	196½ (*w.l.*), 203½ (*o.a.*) × 34½ × 8½ feet
Guns :	2—40 mm. AA., 4—20 mm. AA.
Machinery :	Diesels, 2 shafts. B.H.P. : 2,880 = 13 kts.
Complement :	73

Note.—Both vessels launched April 1945. Converted by U.S. Navy 1952 and taken over by Royal Norwegian Navy October 1952 under the Mutual Defense Assistance Programme.

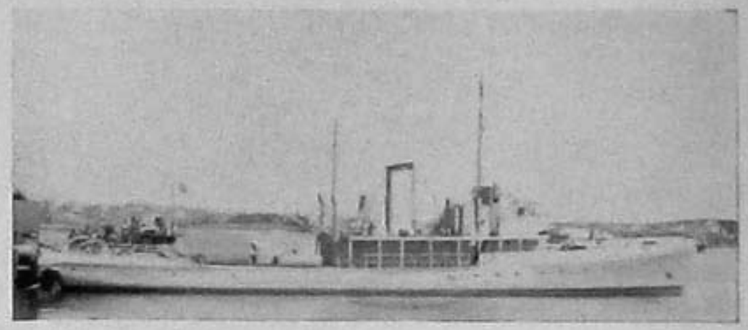
2 Auxiliary Type.

VARGSUND **REINÖYSUND**

Displacement :	600 tons *standard*
Dimensions :	185½ (*o.a.*) × 38½ × 4½ feet
Guns :	2—20 mm. AA.
Machinery :	Diesels. 2 shafts.

Note.—Converted to auxiliary coastal minelayers.

2 "Otra" Class.



OTRA. 1949, *Official.*

OTRA **RAUMA**

Displacement :	360 tons
Dimensions :	168½ × 23½ × 11½ feet
Guns :	1—3 inch, 2—20 mm. 2—Colt 0·5 M.G.
Machinery :	2 Triple expansion. I.H.P. : 900 = 13·5 kts.
Oil fuel :	33½ tons
Complement :	28

Notes.—Laid down at Nyland mek. verk., Oslo, Jan., 1939. *Otra* completed Sept., 1939, *Rauma* completed Jan., 1940.

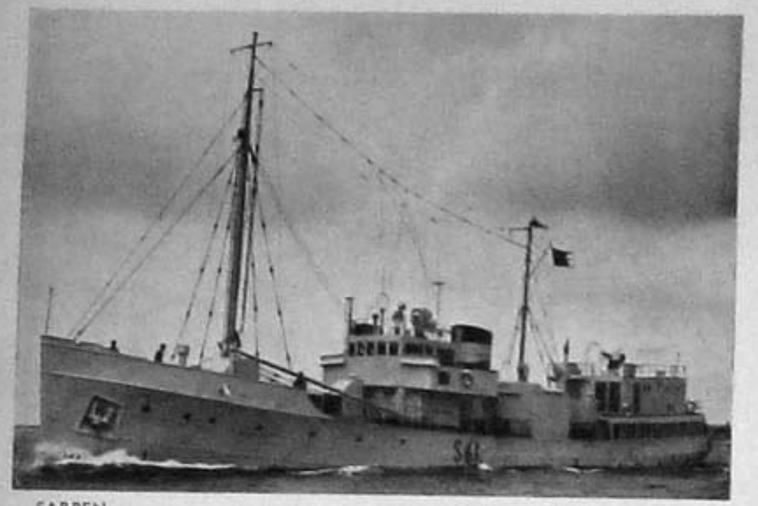
196R

Depot Ships.

VALKYRIEN

Builders :	Burmeister & Wain, Copenhagen
Launched :	1912
Measurement :	1,069 tons gross
Dimensions :	208½ (o.a.) × 31½ × 19½ feet
Guns :	Being installed
Machinery :	Triple expansion. 1 shaft. Oil burning. I.H.P.: 1,200 = 13 kts.

Notes.—Served as regular coastal passenger, mail, and freight carrier for owners Bergenske Dompskibsselskab Berger. Conversion to Depot Ship for Motor Torpedo Boats began 1952.



SARPEN. 1950, *Wright & Logan.*

SARPEN (ex-German *Königsau*)

Measurement :	372·8 tons gross
Dimensions :	156 × 25½ × 10 feet
Machinery :	2 Krupp Diesels. B.H.P. : 2,100 = 16 kts.
Oil fuel :	39 tons
Complement :	32

Note.—Handed over 19 April, 1947. Pendant No. is now A 530.

Asdic Training Ship.

DRAUG (ex-*Pommon*)

Motor Launches.

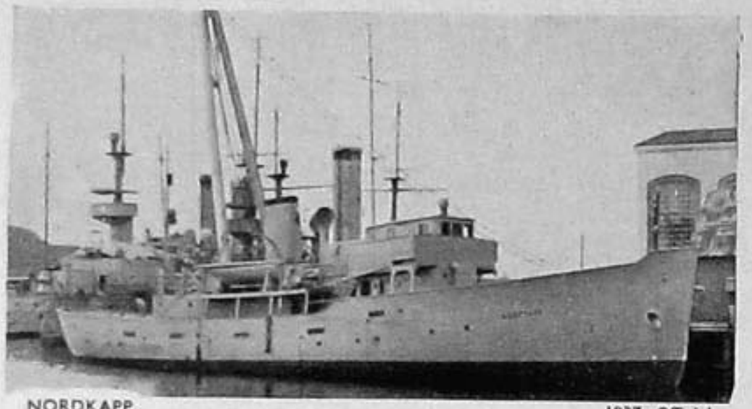
HITRA. 1947 *courtesy Commodore H. Henriksen.*

HESSA (ex-SC 683) **HITRA** (ex-SC 718) **VIGRA** (ex-SC 1061)

Displacement :	85 tons (130 tons *full load*)
Dimensions :	107½ (*w.l.*), 111½ (o.a.) × 17 × 6½ feet
Guns :	1—6 pdr., 1—40 mm., 4—20 mm. AA., 2 M.G.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,500 = 19 kts.
Oil fuel :	15 tons
Complement :	24

Notes.– Ex-U.S. SC type: Wood.

Fishery Protection Vessels.



NORDKAPP. 1937, *Official.*

NORDKAPP **SENJA**

Displacement :	243 tons *standard* (273 tons *full load*, *Senja*, 279 tons, *Nordkapp*)
Dimensions :	130½ × 21½ × 7½ feet
Guns :	1—3 inch, 1—40 mm., 2—20 mm.
Machinery :	2 Sulzer Diesels, with electric drive. H.P. : 830 = 13·75 kts.
Oil fuel :	30 tons
Complement :	29

Notes.—Both built at Horten. Launched 18 Aug. 1937 and 25 Aug. 1937 respectively. *King Haakon VII* (ex-U.S.S. *PC 467*) striken from Navy List in 1953.

Royal Yacht.

NORGE 1948, *courtesy Commodore H. Henriksen, R. Nor. N.*

NORGE (ex-*Philante*)

Builders :	Camper & Nicholsons, Ltd.
Launched :	17 Feb., 1937
Measurement :	1,686 tons T.M.
Dimensions :	250½ (pp.), 263 (o.a.) × 28 × 15½ feet
Machinery :	8-cyl. Diesels, 2 shafts. B.H.P. : 3,000 = 17 kts.

Notes.—Built for Mr. T. O. M. Sopwith to act as escort and store vessel for *Endeavour I* and *Endeavour II*. Served in British Navy as an anti-submarine escort vessel during the Second World War, after which she was purchased for King Haakon by the Norwegian people at a cost of nearly £250,000 and re-conditioned as a Royal Yacht at Southampton. Good sea boat. Can accommodate about 50 people in addition to the crew.

Transport.

SVALBARD 1944, *R.C.N., Official.*

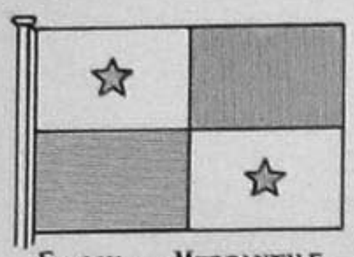
SVALBARD (ex-German *Togo*),

Launched :	1938
Displacement :	5,040 tons
Dimensions :	415 × 58½ × 24 feet
Machinery :	2 S.C.D.A. Bremer Vulcan. H.P. : 6,150 = 15 kts.
Oil fuel :	750 tons
Complement :	57

S

PANAMA

Flag.



ENSIGN and MERCANTILE.

Mercantile Marine.

Lloyd's Register appendix, 1953 :
609 ships of 3,748,624 tons *gross*.

Coast Guard Patrol Vessels.

Photo wanted.

Dimensions : 69 × 14 × — feet

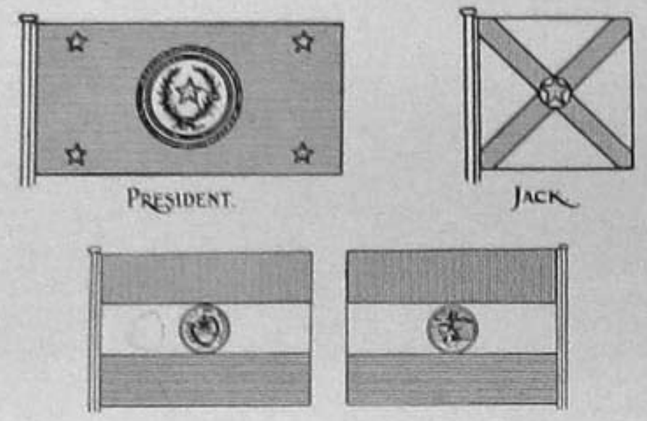
Note.—Two small craft (to replace YP 162, 539, formerly on loan) purchased from the U.S. Government in 1947.

Tug.

Note.—Existence of a Navy fire-fighting tug is reported.

PARAGUAY

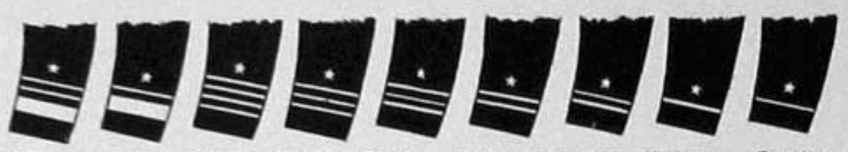
Flags.



PRESIDENT. JACK

ENSIGN AND MERCANTILE.

Uniforms.



Vice-Almirante. Contra-Almirante. Capitán de Navio. Capitán de Fragata. Capitán de Corbeta. Teniente de Navio. Teniente de Fragata. Teniente de Corbeta. Guardia Marina.

Administration.

Minister of National Defence: General de División Don Francisco Caballero Alvarez.

In Command of Fleet: Capitán de Navio Don Gabriel A. Patino.

Personnel.

1,900 officers and ratings.

Patrol Launches (*Launchas Patrulleras*).

P 1	P 2	P 3	P 4	P 5	P 6
Displacement :		45 tons			
Dimensions :		83 × 16 × 4½ feet			
Guns :		2—20 mm. AA.			
Machinery :		2 petrol motors. H.P. : 1,200 = 20 kts. (now less)			
Complement :		10			

Notes.—Wood. Acquired from U.S. Coast Guard, 1944. Out of service.

River Gunboats (*Canoneros*).

HUMAITA. 1932 *Photo, Official.*

HUMAITA (*ex-Capitán Cabral*)	**PARAGUAY** (*ex-Comodor Meyo*)
Displacement :	636 tons (865 tons *full load*)
Dimensions :	231 × 35 × 5½ feet
Guns :	4—4·7 inch, 4—3 inch AA., 2 M.G.
Mines :	6
H.T. Armour	½" side amidships, ½" deck, 1" C.T.
Machinery :	Parsons geared turbines, 2 shafts, S.H.P. 3,800 = 17 kts.
Boilers :	2
Oil fuel :	150 tons
Radius :	1,700 miles at 16 kts.
Complement :	86

Notes.—Fitted for minelaying.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Humaita	Odero, Genoa	Apr., 1929	1930	May, 1931
Paraguay	Odero, Genoa	Apr., 1929	1930	May, 1931

River Patrol Boats (*Avisos de Guerra*).

CAPITAN CABRAL

Built :	Werf-Conrad, Haarlem
Launched :	1907
Displacement :	206 tons
Dimensions :	98½ (*pp.*), 107½ (*o.a.*) × 23½ × 9½ feet
Guns :	1—3 inch Vickers, 2—37 mm. Vickers, 4 M.G.
Machinery :	Triple expansion. I.H.P. : 300 = 9 kts.
Complement :	47

Note.—Of wooden construction.

CORONEL MARTINEZ

Displacement :	80 tons
Dimensions :	71½ × 18 × 8½ feet
Guns :	1—3 inch, 2—37 mm.
Machinery :	I.H.P. : 150 = 6·5 kts.

TENIENTE HERREROS

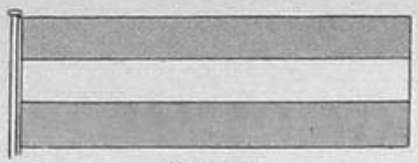
Displacement :	41 tons
Dimensions :	63½ × 11 × 6½ feet
Guns :	4 M.G.
Machinery :	I.H.P. : 58 = 5·5 kts.

PERSIA (IRAN)

Flags.

ROYAL STANDARD

ENSIGN.



MERCANTILE

Administration.

Chief of Naval Staff: Rear-Admiral G. H. Bayandor.

Commander-in-Chief Persian Gulf: Rear-Admiral H. Shahin.

Ships.

The three gunboats in the Persian Gulf, *Shahbaz*, *Shahrogh* and *Simorgh* were removed rom the effective list and scrapped in 1953.

The two ex-air/sea rescue craft (ex-M.T.B.s) were removed from the effective list and handed over to the Custom Guard in 1953.

Personnel.

1,650 officers and men.

Silhouette.

BABR.

Frigates.

1949, *Abrahams.*

BABR (ex-H.M.S. *Derby Haven*, ex-*Loch Assynt*)

Builders :	Swan, Hunter, & Wigham Richardson, Ltd.
Laid down :	11 Feb., 1944
Launched :	14 Dec., 1944
Completed :	2 Aug., 1945
Displacement:	1,652 tons *standard* (2,160 tons *full load*)
Dimensions :	307½ × 38½ × 12¾ feet
Guns :	2—4 inch, 4—40 mm. AA.
Machinery :	Triple expansion. 2 shafts, I.H.P. : 5,500 = 19·5 kts.
Boilers :	2 Admiralty 3-drum type.

Notes.—Modified "Loch" class frigate. Acquired from Great Britain in 1949. "Babr" means "Panther."

1949, *Abrahams.*

PALANG (ex-H.M.S. *Fly*)

Builders :	Lobnitz & Co., Ltd., Renfrew
Laid down :	6 Oct., 1941
Launched :	1 June, 1942
Completed :	20 Oct., 1942
Displacement:	1,040 tons *standard* (1,335 tons *full load*)
Dimensions :	235 (*o.a.*) × 35½ × 11½ feet
Guns :	2—4 inch, 4—40 mm. AA., 2 D.C.T.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,000 = 16·5 kts.
Boilers :	2, of 3-drum type
Complement :	85

Notes.—Former "Algerine" class ocean minesweeper and escort vessel acquired from Great Britain in 1949. "Palang" means "Tiger."

Motor Launches

Added 1951, *Builders, courtesy M. J. Meister.*

	BABOLSAR	GORGAN	SEFIDREUDE
Displacement	28 to 32 tons		
Dimensions :	68½ × 12½ × 5½ feet		
Guns :	1—47 mm. (Skoda), 1 M.G.		
Machinery :	2 Krupp Diesels, 2 shafts. B.H.P. : 300 = 14 kts.		

Note.—Built by Cant. Nav. Riuniti, Palermo. In Caspian Sea.

Imperial Yacht.

CHAHSAVAR

Builders :	N.V. Boele's Scheepwerven, Bolnes, Netherlands.
Launched :	1936
Displacement :	530 tons
Dimensions :	176½ × 25½ × 10½ feet
Machinery :	2 sets Diesels by Gebr. Stork, of Hengelo. B.H.P. : 1,300 = 15 kts.

Note.—In Caspian Sea.

Tug.

YADAK BAR (*ex-Neyrou*)

Builders :	Cant. Nav. Riuniti, Ancona.
Launched :	9 Dec., 1934
Displacement :	226 tons
Dimensions :	81 (*pp.*), 88½ (*o.a.*) × 22 × 10 feet
Guns :	2 M.G.
Machinery :	Triple expansion. I.H.P. : 600 = 11 kts.

Note.—In Persian Gulf.

Tender.

SIRRY (*ex-MFV 1513*)

Length : 90 feet.

Note.—Purchased from Britain, 1949. Rated as "Fire Extinguishing Boat."

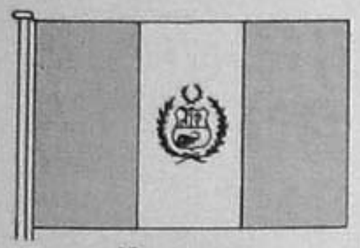
Fast Dispatch Boat.

TAHMADOU (*ex-FDB 58, ex-SDML 1389*)

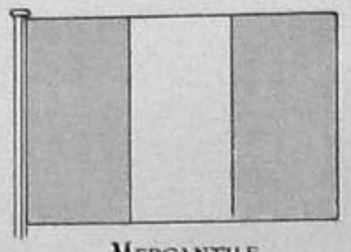
Displacement :	46 tons
Dimensions :	72 × 16 × 5 feet
Guns :	8 M.G.
Machinery :	Diesel. B.H.P. : 320
Complement :	10

PERU

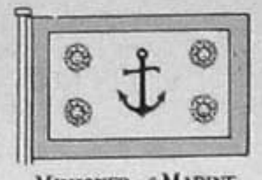
Flags.

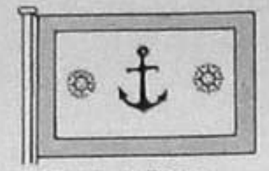

NATIONAL.

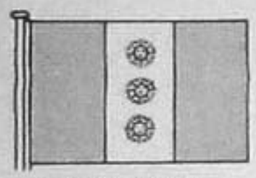
JACK.

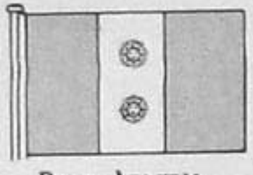

MERCANTILE

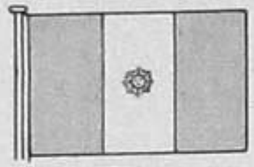
PRESIDENT.

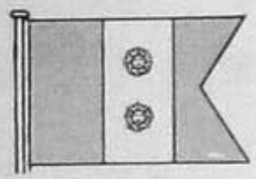

MINISTER of MARINE.

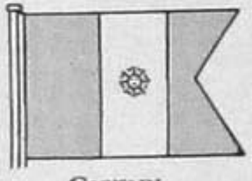

CHIEF of STAFF

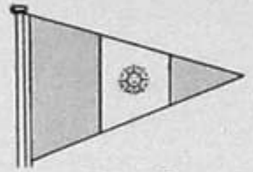

VICE-ADMIRAL
in Command.

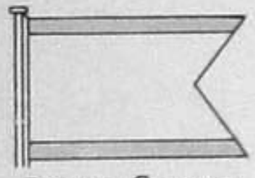

REAR-ADMIRAL
in Command

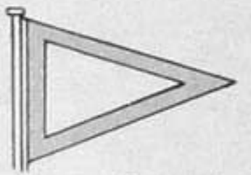

REAR-ADMIRAL.
Subordinate.

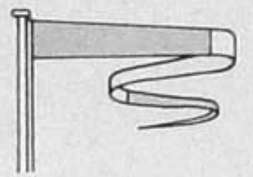

CAPTAIN.
Independent Command.


CAPTAIN.
Subordinate


SENIOR NAVAL OFFICER.

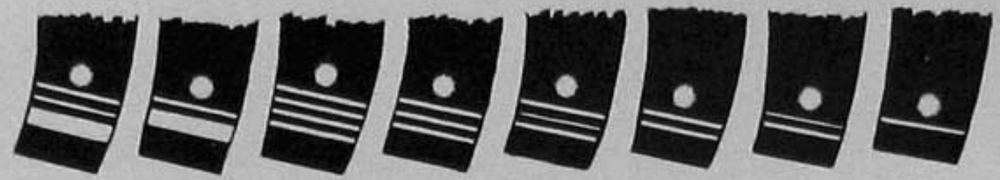

FLOTILLA COMMAND.


DIVISION COMMAND.


PENDANT.

The wreath on top of the central emblem of National Flag and Jack is closed without gap. The central emblem of Presidential Insignia is the same as used in the National Flag.

Uniforms.



Vice-Almirante. *Vice-Admiral.*	Contra-Almirante. *Rear-Admiral.*	Capitán de Navio. *Captain.*	Capitán de Fragata. *Commander.*	Capitán de Corbeta. *Lieut-Commander*	Teniente 1°. *Lieutenant (Senior).*	Teniente 2°. *Lieutenant (Junior).*	Alferez de Fragata. *Sub-Lieutenant.*

All branches wear the same stripes, but instead of radiant sun, Engineers and Surgeons wear respectively a propeller and a caduceus.

Administration.

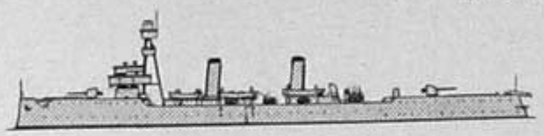
Minister of Marine : Vice-Admiral Roque A. Saldias.
Chief of the General Staff of the Navy : Vice-Admiral Carlos Rotalde.

Mercantile Marine.

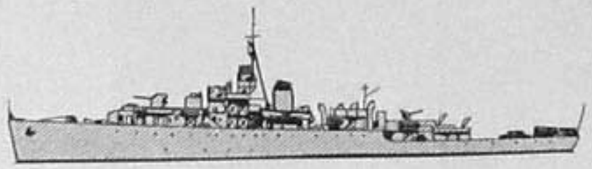
Lloyd's Register appendix, 1953 : 51 vessels of 101,370 tons gross.

Silhouettes.

* Scale : 150 ft. = 1 inch.


ALMIRANTE GRAU
(CORONEL BOLOGNESI similar, but without poop and sternwalk.)

VILLAR. *


FERRÉ, PALACIOS.

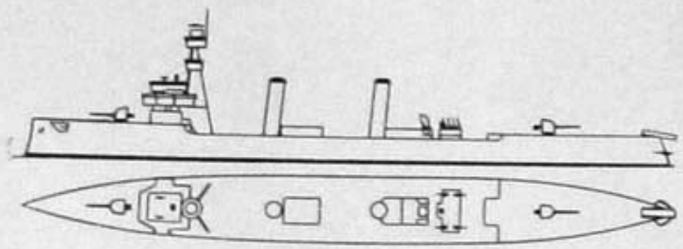
GALVEZ.
(Has a third gun aft in place of deckhouse removed).

Light Cruisers.

ALMIRANTE GRAU. 1950, *Peruvian Navy, Official.*

CORONEL BOLOGNESI. 1950, *Peruvian Navy, Official.*

	ALMIRANTE GRAU	CORONEL BOLOGNESI
Displacement :	3,200 tons	
Dimensions :	Length : 370 feet (pp.). Beam : 40½ feet. Draught : 14½ feet (*max.*)	
Guns :	2—6 inch, 50 cal., 6—3 inch (Vickers). 2—3 inch AA., 4—20 mm. AA. (Japanese), 5 M.G.	
Armour :	1½" deck (amidships), 3" C.T., 3" gun shields	
Machinery :	4 cylinder vertical triple expansion, 2 shafts. Designed H.P. 14,000 = 24 kts.	
Boilers :	8 Yarrow (new in 1934)	
Oil fuel :	500 tons *normal*	
Endurance :	3,700 miles at 10 kts.	
Complement :	315	



General Notes.—Refitted at Balboa, boilers being re-tubed and modiffied for oil burning, 1923-25. Reboilered by Yarrow, 1934-35, after which both ships were good for 23·5 kts. at sea. Used for administrative and training purposes.

Gunnery Notes.—Italian Giradelli-type training indicators were added to gunnery equipment. The 20 mm. guns are mounted in pairs.

Historical Notes.—Rear-Admiral Grau commanded the Peruvian fleet in the war with Chile in 1879, and lost his life when his flagship, the *Huascar*, was captured in the Battle of Angamos. Don Francisco Bolognesi was killed in the defence of Arica in June, 1880.

Name	*Builders & Engineers*	*Laid down*	*Launched*	*Completed*
Almirante Grau	Messrs. Vickers, Ltd.	1905	27 Mar., 1906	1907
Coronel Bolognesi		1905	24 Sep., 1906	1907

Frigates (*Destroyer Escorts*).

3 Ex-U.S. Type.

CASTILLA. 1953, *Peruvian Navy Official.*

AGUIRRE (*ex-Waterman, DE 740*) **CASTILLA** (*ex-Bangust, DE 739*) **RODRIGUEZ** (*ex-Weaver, DE 741*)

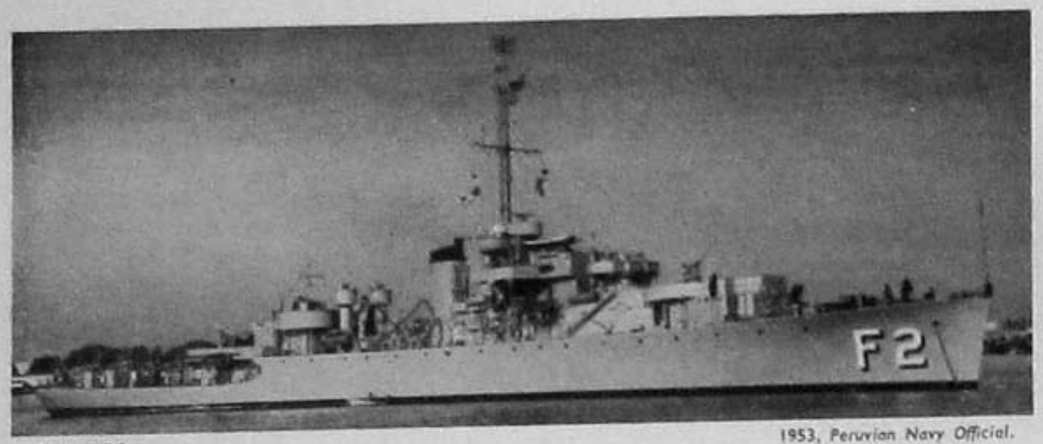
Displacement :	1,500 tons *standard* (1,900 tons *full load*)
Dimensions :	306 (*o.a.*), 300 (*pp.*) × 36½ × 12 (*max.*) feet
Guns :	3—3 inch, 50 cal., d.p., 6 —40 mm. AA.,(in three twin mountings) 10—20 mm. AA.
Torpedo tubes :	removed
A/S Weapons :	2 Depth Charge racks aft ; 8 K guns ; 1 Mark X Ahead Throwing weapons (hedgehog) for 7·2 inch rocket missiles
Machinery :	4 Diesel-electric sets coupled to 2 shafts. B.H.P. : 6,000 = 21 kts.
Oil fuel :	322 tons
Radius :	10,500 miles at 12 kts.

Notes.—Formerly United States Destroyer Escorts of " Bostwick " class. Transferred to Peru Oct. 26, 1951, under the Mutual Defense Assistance Program. Original three torpedo tubes in triple mounting removed. Reconditioned and modernised at Green Cove Springs and Jacksonville, Flor. Actually arrived in Peru 24 May, 1952.

Pendant No.	*Name*	*Builders*	*Launched*	*Completed*
D2	*Aguirre*	Western-Pipe & Steel Co., San Pedro, California	4 July 1943	31 Dec. 1943*
D1	*Castilla*		6 June 1943	30 Oct. 1943*
D3	*Rodriguez*		20 June 1943	30 Nov. 1943*

* Commissioning dates.

Frigates.



PALACIOS. 1953, *Peruvian Navy Official.*

FERRÉ. 1951, *Peruvian Navy, Official.*

FERRÉ (*ex-H.M.C.S. Poundmaker*)

PALACIOS (*ex-H.M.C.S. St. Pierre*)

Displacement:	1,445 tons *standard* (2,360 tons *full load*)
Dimensions :	301½ × 36½ × 12 feet
Guns :	2—3 inch d.p., 5—20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers :	2, of 3-drum type
Oil fuel :	646 tons

General Notes.—Modernized with new guns and fire control equipment at New York Naval Shipyard 1952. Formerly known as *Teniente Ferré* and *Teniente Palacios*, respectively.

Historical Notes.—Named after two officers of the Peruvian ironclad *Huascar* at the Battle of Angamos, when she was captured by the Chileans after a stubborn resistance, in which both were killed.

Pendant Nos.	*Name*	*Launched*
F 3	*Ferré*	21 Apr., 1944
F 2	*Palacios*	1 Dec., 1943

Frigates—*continued.*

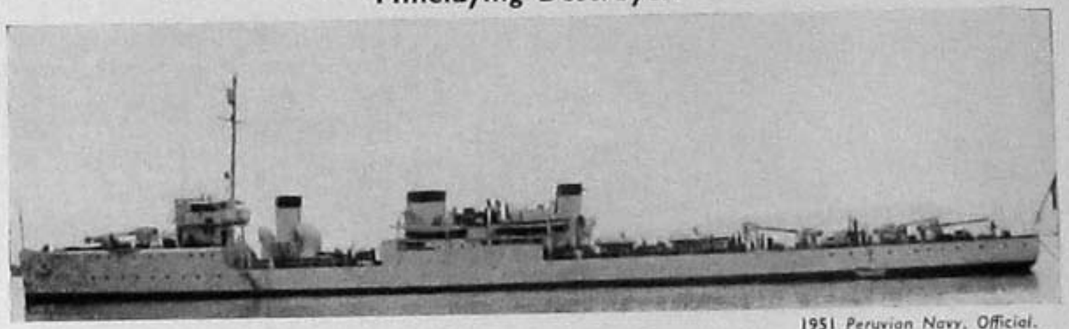
1951, *Peruvian Navy, Official.*

GÁLVEZ (*ex-U.S.S. Woonsocket*)

Builders :	Walter Butler, Superior
Launched :	27 Sep. 1943
Displacement	1,430 tons (2,415 tons *full load*)
Dimensions :	285½ (*w.l.*), 304 (*o.a.*) × 37½ × 13½ feet
Guns :	3—3 inch, 50 cal., 6—20 mm. AA., 2 M.G. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 5,500 = 19 kts.
Boilers :	2, of 3-drum type
Oil fuel	290 tons

Notes.—Overhauled at Norfolk (Va.) Navy Yard, 1952. Formerly known as *Teniente Gálvez*. Pendant No. F 1.

Minelaying Destroyer.



1951 *Peruvian Navy, Official.*

VILLAR (*ex-Vambola, ex-Russian Spartak, ex-Mikula Maklei*)

Builders :	Putilov Works, Petrograd
Launched :	1915
Completed :	1918
Displacement :	1,150 tons (1,260 tons *full load*)
Dimensions :	315¾ × 30¼ × 12½ feet
Guns :	4—4 inch, 60 cal., 4—20 mm. AA.
Tubes :	9—18 inch, in triple deck mountings
Machinery :	A.E.G. Curtis turbines. S.H.P. : 32,000 = 35 kts.
Boilers :	4 Thornycroft.
Oil fuel :	420 tons
Radius :	2,500 miles at 15 kts.
Complement :	142

Notes.—Designed to carry and lay 80 mines. Captured from Russian Navy by British Navy in the Baltic in December, 1918, and transferred to Estonia, from whom she was purchased by Peru in 1933. Used for administrative and training purposes. Formerly known as *Almirante Villar*.

193R

Submarines.

New Construction.

LOBO **TIBURON**

Displacement :	825 tons *standard*, 1,400 tons *submerged*
Dimensions :	243 (*o.a.*) × 22 (*max.*) × 14 (*max.*) feet
Guns :	1—5 inch, 25 cal.
Torpedo tubes:	4—21 inch (bow), 2—21 inch (aft)
Machinery :	2 General Motors Corporation single acting, two-cycle, non-reversible, type 278A. 2 shafts. B.H.P. : 2,400 (total)

Notes.—On 8 Dec., 1951 the Electric Boat Co., Groton, Connecticut announced they had been awarded a contract to build two modern submarines. Keels laid 12 May, 1952 for delivery in March and June, 1954.

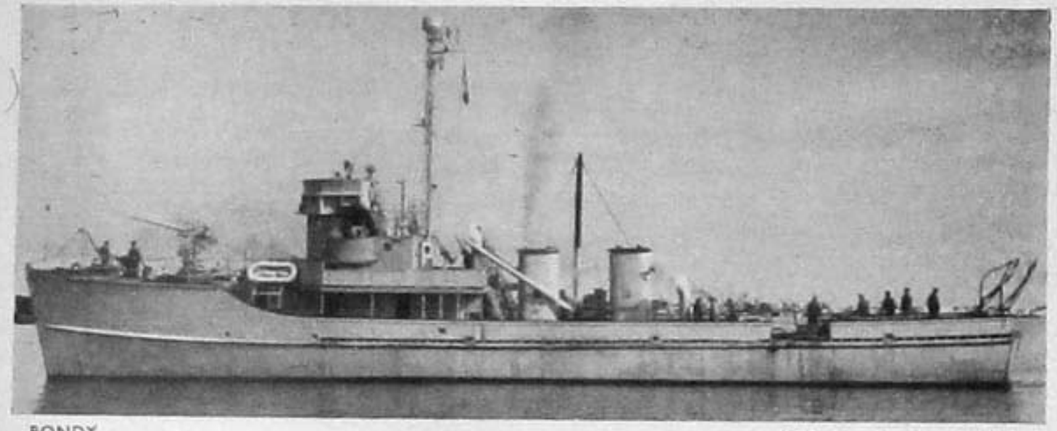
R 3. 1951, *Peruvian Navy, Official.*

R 1 (April, 1926) **R 2** (May, 1926) **R 3** (April 21, 1928) **R 4** (May 10, 1928)

Displacement :	567 tons *surface* 755 tons *submerged*
Dimensions :	186½ (*o.a.*), 178½ (*pp.*) × 17½ × 15 feet
Guns :	1—3 inch
Tubes :	4—21 inch (bow). 8 torpedoes carried
Machinery :	2 Nelseco Diesel engines, B.H.P. : 880 = 14·5 kts (*surface*) Electric motors, H.P. : 1,000 = 9·5 kts. (*submerged*)
Radius :	8,000 miles
Complement :	30

Notes.—Built by Electric Boat Co., Groton, Conn. Launch dates above. *R 3*, *R 4* delivered in summer of 1928. R 1, *R 2* were refitted at builders' yard in 1935, *R 3* and *R 4* in 1936. All overhauled in United States, 1950.

Minesweepers.



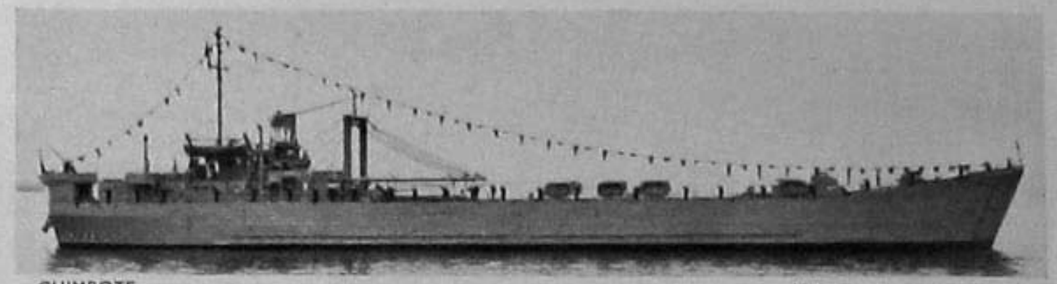
BONDY. 1953, *Peruvian Navy Official.*

BONDY (*ex-YMS 35*) **SAN MARTIN** (*ex-YMS 5*)

Displacement :	300 tons (325 tons *full load*)
Dimensions :	136 × 24½ × 6 feet
Guns :	1—3 inch, 2—20 mm. AA.
Machinery :	2 G.M. Diesels. B.H.P. : 1,000 = 15 kts. (*max.*), 11 kts. economical speed.
Fuel :	20 tons

Notes.—Both launched 1942. Formerly known as *Alférez de Fragata Bondy* and *Guardiamarina San Martin*, respectively.

Tank Landing Ship.



CHIMBOTE. 1953, *Peruvian Navy Official.*

CHIMBOTE (*ex-M/S Rawhiti, ex-U.S.S. LST 283*)

Builders :	American Bridge Company, Ambridge, Pennsylvania
Completed :	November, 1943
Displacement :	1,625 tons *standard*, 4,050 tons *full load*
Dimensions :	328 (*o.a.*), 315 (*pp.*) × 50 × 14½ (*max.*) feet
Machinery :	Diesel. 2 shafts. B.H.P. : 1,700 = 10 kts.
Oil fuel :	600 tons (oil tanks) : 1,100 tons (ballast tanks)
Radius :	24,000 miles at 9 kts.

Landing Craft.

BT 3. 1951, *Peruvian Navy, Official*

BT 1 (*ex-LCT 501*) **BT 3** (*ex-LCT 855*)

Displacement :	309 tons (*full load*)
Dimensions :	119 × 32½ × — feet
Machinery :	Diesel. 3 shafts. B.H.P. : 675 = 10 kts.

Notes.—BT 2 and BT 4 removed from list. A landing craft to train troops in amphibious operations has been ordered.

Transports.

CALLAO (*ex-Monserrate*)

Builders :	Bremen Vulkan Yard, Bremen-Vegesak
Launched :	1938
Measurement :	5,578 tons *gross*
Dimensions :	459 × 56 × 22 feet (depth 35 feet)
Machinery :	Diesel motors.
Speed :	16 kts.

Notes.—Former Hamburg America liner. Seized April 1. 1941 by Peruvian Government.

RIMAC (*ex-Eten, ex-Rhakotis*)

Builders :	Blohm & Voss, Hamburg
Launched :	1907
Measurement :	6,848 tons *gross*
Dimensions :	485½ × 53 × 26 feet
Machinery :	I.H.P. : 3,200 = 12 kts.
Coal :	1,600 tons

River Gunboats.

UCAYALI. *Added 1952, courtesy John I. Thornycroft & Co. Ltd.*

MARAÑON **UCAYALI**

Displacement :	365 tons *full load*
Dimensions :	154½ (*w.l.*) × 32 × 4 (*max.*) feet
Guns :	2—3 inch, 50 cal., d.p., 7—20 mm. AA. (2 twin, 3 single)
Machinery :	Two sets British Polar Diesel engines. Type M441. B.H.P. : 800 = 12 kts (normal)
Range :	6,000 miles without refuelling.
Complement :	40

Notes.—Ordered early 1950. Employed on police duties in Upper Amazon. Specially designed for carrying naval officers and men under tropical conditions. Very shallow draught. Superstructure of aluminium alloy. Mechanical ventilation. Based on Iquitos.

Name	*Builders*	*Launched*	*Completed*
Marañon	John I. Thornycroft & Co. Ltd. Woolston, Southampton	Apr., 1951	July, 1951
Ucayali		7 Mar., 1951	June, 1951

AMAZONAS **LORETO**

Displacement	250 tons *standard*
Dimensions :	145 × 22 × 4 feet
Guns :	4—3 inch, 4 M.G. AA.
Machinery :	Diesel B.H.P. : 750 = 15 kts.
Complement :	35

Notes.—Designed and built by Electric Boat Co., Groton, Conn. Launched 1934.

NAPO

Builders :	Yarrow
Launched :	1920
Displacement :	98 tons
Dimensions :	100 (*pp.*), 101½ (*o.a.*) × 18 × 3 feet
Guns :	4—47 mm. (3 pdr.), 2 M.G. AA.
Machinery :	Triple expansion. I.H.P. : 250 = 12 kts.
Boilers :	Yarrow
Complement :	22

Notes.—Steel. Now converted from wood to oil fuel burning. Upper Amazon.

AMERICA

Launched :	1901
Displacement :	240 tons
Dimensions :	133 × 19½ × 4½ feet
Guns :	2—3 pdr.
Machinery :	I.H.P. : 350 = 14 kts.
Complement :	26

Notes.—Steel. Converted from coal to oil fuel burning. Upper Amazon Flotilla.

PORTILLO (*ex-San Pablo*)

Launched :	1902
Displacement :	49 tons
Dimensions :	80½ × 16½ × 4 feet
Guns :	2—47 mm., 2 M.G. AA.
Machinery :	Compound engines. Speed under 7 kts.

Note.—Formerly known as *Coronel Portillo*.

IQUITOS

Launched :	1875
Displacement :	50 tons
Dimensions :	77 × 12 × 7½ feet
Guns :	4—37 mm., 2—20 mm., 2 M.G. AA.
Speed :	7·5 kts.

Notes.—Rebuilt 1896. *Iquitos* and *Portillo* are converted merchant vessels. On Amazon.

Motor Launches.

CS 6. *1951, Peruvian Navy. Official.*

CS 1 **CS 2** **CS 3** **CS 4** **CS 5** **CS 6**

Displacement :	45 tons
Dimensions :	83 × 16 × 4½ feet
Guns :	1—40 mm. AA., 2 M.G.
Machinery :	2 petrol motors. H.P. : 1,200 = 20 kts. (now less)
Complement :	10

Notes.—Wooden construction. All transferred from U.S. Coast Guard in 1943-44.

Fleet Supply Ship.

1944, R.C.N., Official.

CABO BLANCO (*ex-Mariscal Castilla, ex-Preserver*)

Measurement :	4,680 tons gross.
Dimensions :	265 × 43 × 17 feet
Speed :	9 kts.

Note.—Purchased from Royal Canadian Navy, 1946.

Fleet Oilers.

SECHURA

Dimensions :	360 (*w.l.*) × 52 (*breadth moulded*) × 21½ (*draft loaded*) feet
Machinery :	Diesel Engine Type 562 VTF-115, made by Burmeister & Wain, Copenhagen, Denmark, B.H.P. : 2,400

Notes.—Keel laid by John I. Thornycroft & Co. Ltd., Woolston, Southampton, late 1952, for delivery mid 1954. 6,000 tons deadweight (all told).

TALARA

Dimensions :	336½ × 50½ × 22½ feet
Machinery :	Diesel Engine Type 562, VTF-115, made by Burmeister. B.H.P. : 2,400

Notes.—Keel laid early 1953 by Burmeister & Wain's Maskin-Og Skibsbyggeri, Copenhagen for delivery during 1954. 4,800 tons deadweight (about 35,000 barrels).

Oiler.

PARIÑAS (*ex-Sjömend*, Thornycroft)

Launched :	1921
Displacement :	2,820 tons gross
Dimensions :	300 × 44 × 21½ feet
Machinery :	Turbines. I.H.P. : 1,600 = 10 kts.
Oil fuel :	560 tons
Cargo tanks :	4,300 tons

Submarine Salvage Vessel.

1953, Peruvian Navy, Official.

RIOS

Displacement :	2,400 tons *standard*
Dimensions :	180 (*o.a.*) × 43 × 19 feet
Machinery :	Triple expansion. I.H.P. : 1,200 = 10 kts.

Notes.—Formerly known as *Guardian Rios*. Operates under the Callao Port Authority.

Tugs.

1951, Peruvian Navy, Official.

SELENDON (*ex-ATR 25*) **OLAYA** (*ex-ATR 31*)

Displacement :	852 tons
Dimensions :	165½ × 33½ × 13½ feet
Machinery :	Triple expansion. I.H.P. : 1,600 = 12 kts.

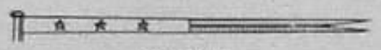
Notes.—Of wooden construction. Formerly known as *Condestible Selendón* and *José Olaya* respectively.

PHILIPPINES

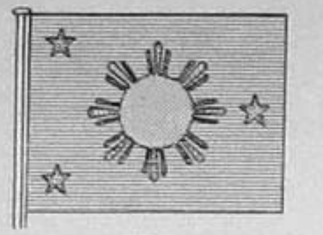
Flags

PRESIDENT

NATIONAL



PENDANT



JACK

Colour and Dimensions of Flags:—

National Flag (5·0′ × 9·5′): blue and red (horizontal) with a white canton charged with a gold sun (with 8 rays) and three gold stars.

President's Flag (3·6′ × 5·1′): blue with red triangle (containing gold lion-dolphin holding sword, and three stars) superimposed on a gold sun and encircled by 50 gold stars.

Jack (2·7′ × 3·9′): blue with gold sun and three gold stars.

Pendant (0·15′ × 4·0′): white (with three gold stars) blue and red.

Administration

Flag Officer in Command, Philippine Navy: Commodore J. Francisco, P.N.

Ships' names are prefaced by R.P.S. (Republic of Philippines Ship).

Mercantile Marine

Lloyd's Register appendix, 1953:
97 vessels of 149,284 tons.

Presidential Yacht

(Fleet Minesweeper)

APO. 1952, *Philippine Navy, Official.*

APO (ex-U.S.S. *Quest*, AM 281)

Displacement:	850 tons *standard*, 881-98 tons *normal* (945 tons *full load*)
Dimensions:	184½ (*o.a.*) × 33 × 9¾ feet
Guns:	1—3 inch, 4—20 mm. AA.
Machinery:	Diesel, 2 shafts, B.H.P. : 1,800 = 16 kts. (designed). Cruising speed : 9 kts., *max.* 14 kts.
Complement:	45 (four officers, 40 enlisted men)

Notes.—Built by Gulf S.B. Corpn. Steel. Cruising range of 5,600 miles and 23 days. Converted vessel, former fleet minesweeper.

Escort Patrol Vessels

PCE 881. 1953, *Philippine Navy, Official.*

PCE 881 **PCE 884** **PCE 885** **PCE 891** **PCE 897**

Displacement:	600 tons (900 tons *full load*)
Dimensions:	184½ (*o.a.*) × 33 × 9¼ feet
Guns:	1—3 inch, 3—40mm. (891, 6—40 mm.) AA., 4—20 mm.
Machinery:	Diesel. 2 shafts. B.H.P.: 1,800 = 20 kts.
Complement:	81

Notes.—Philippine Naval Patrol.

Minesweeper.

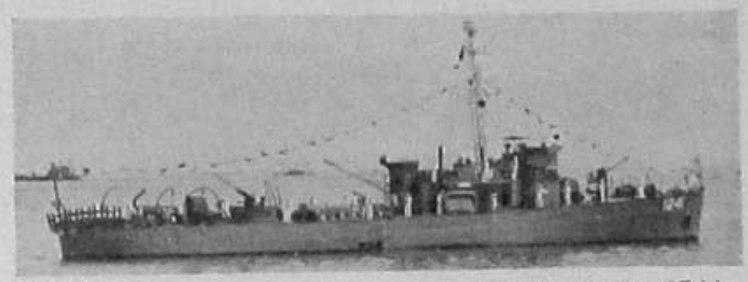
AM 278. 1953, *Philippine Navy, Official.*

AM 278 (ex-U.S.S. *Project*, AM 278)

Displacement:	850 tons (945 tons *full load*)
Dimensions:	184½ (*o.a.*) × 33 × 9¼ feet
Guns:	1—3 inch, 4—40 mm. AA., 4—20 mm.
Machinery:	Diesel. 2 shafts. B.H.P.: 1,800 = 18 kts.
Complement:	104

Notes.—Built by Gulf S.B. Corpn., Steel. Originally a sister ship of *Apo*, Presidential Yacht

Submarine Chasers



PC 1241. 1953, *Philippine Navy, Official.*

PC 1131 **PC 1134** **PC 1563**
PC 1133 **PC 1241** **PC 1564**

Displacement:	330 tons (450 tons *full load*)
Dimensions:	173½ (*o.a.*) × 23 × 6 feet
Guns:	1—3 inch d.p., 1—40 mm. AA., 5—20 mm. AA.,
Machinery:	2 G.M. 2-stroke Diesels. 2 shafts. B.H.P.: 3,600 = 22 kts.
Complement:	60.

Submarine Chasers—*continued.*

PCS 1403. 1953, *Philippine Navy, official.*

PCS 1399 (ex-YMS 450) **PCS 1403**

Displacement:	230 tons (300 tons *full load*)
Dimensions :	136 (*o.a.*) × 24½ × 8½ feet
Guns:	1—3 inch, 1—40 mm., 4—20 mm.
Machinery:	Diesel. B.H.P.: 1,000 = 14.5 kts.
Complement :	42

SC 1267. 1953, *Philippine Navy, official.*

SC 731 **SC 736** **SC 750** **SC 1267**
SC 732 **SC 747** **SC 982** **SC 1274**

Displacement:	85 tons (130 tons *full load*)
Dimensions:	111 (*o.a.*) × 17 × 6 feet
Guns :	1—40 mm. AA., 3—20 mm. AA.
Machinery :	Diesels. 2 shafts. B.H.P. : 1,000 = 18 kts.
Complement :	28

Surveying Vessels.

ANEMONE **LUPINE** **ORCHID** **SEQUOIA** **TULIP**

Displacement:	1,057 tons
Dimensions:	190 × 30 × 13 feet
Machinery:	Triple expansion, 2 shafts. I.H.P.: 1,000 = 12 kts.

Note.—Under the jurisdiction of the Director of Coast Surveys of the Philippine Islands. Employed in coastal surveying. *Anemone* and *Lupine* may be in use by Philippine Naval Patrol. *Orchid*, *Sequoia* and *Tulip* are sister ships, built in 1908. All ex-U.S. Coast Guard buoy tenders.

ARMISTEAD RUST (ex-USS AGSc 9, ex-USS PCS 1404)

Landing Ships.

LST 875. 1953, *Philippine Navy, Official.*

LST 75 **LST 842** **LST 843** **LST 865** **LST 875**

Displacement:	1,625 tons (*light*), 4,080 tons (*loaded*)
Dimensions:	316 (*w.l.*), 328 (*o.a.*) × 50 × 14 (*max.*) feet
Guns :	7—40 mm. AA., 2—20 mm. AA.
Machinery:	Diesel. 2 shafts. B.H.P.: 1,800 = 12 kts.
Complement :	90

Note.—Ex-LST 75 launched 7 April 1943.

LCI 1058 **LCI 1059**

Displacement :	173 tons (381 tons *full load*)
Dimensions :	159 (*o.a.*) × 23½ × 5½ feet
Guns :	5—20 mm.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,320 = 14 kts.
Complement :	43

Notes.—Former United States Landing Craft. Employed as lighthouse tenders.

Rescue Tug.

1953, *Philippine Navy, official.*

ATR 96

Displacement :	852 tons
Dimensions :	143 × 33 × 13½ feet
Guns :	1—3 inch, 2—20 mm.
Machinery :	Diesel Electric. B.H.P. : 1,875 = 14 kts.
Complement :	33

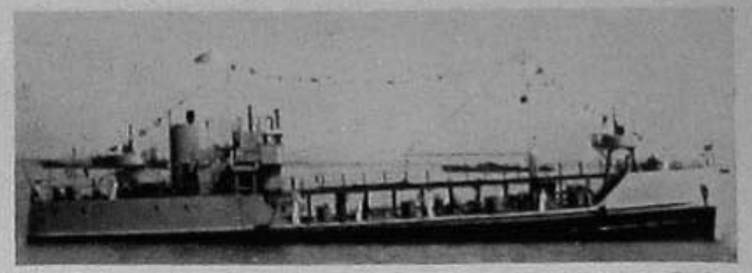
Note.—Returned to U.S. from United Kingdom.

Auxiliary Ships

YW 125

Displacement :	1,235 tons *full load*
Dimensions :	174 (*o.a.*) × 32 × 15 (*max.*) feet
Guns :	2—20 mm.
Machinery :	Diesel. B.H.P. : 640 = 9 kts.
Complement :	21

Note.—Water carrier.



1953, *Philippine Navy, official.*

YO 173

Displacement:	521 tons (1,400 tons *full load*)
Dimensions :	174 (*o.a.*) × 32 × 13½ (*max.*) feet
Guns :	2—20 mm.
Machinery :	Diesel. B.H.P. : 560 = 8 kts.
Complement :	21

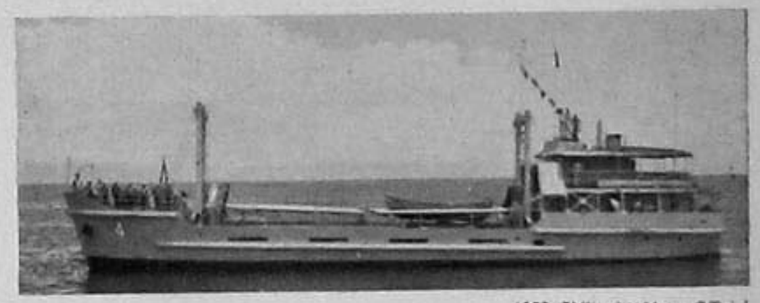
Y 19

Displacement :	484 tons (1,300 tons *full load*)
Dimensions :	162½ (*o.a.*) × 27 × 12 (*max.*) feet
Guns :	2—50 cal. Browning M.G.
Machinery :	Diesel. B.H.P. : 4,000 = 6 kts.

Lighthouse Tenders

FS 185 **FS 203**

Displacement :	470 tons (811 tons *full load*)
Dimensions :	180 (*o.a.*) × 32 × 10 feet
Machinery :	Diesel. 2 shafts. B.H.P. : 1,000 = 11 kts.
Complement :	43



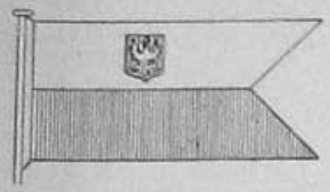
1953, *Philippine Navy, Official*

OL 4

Displacement :	162 tons (301 tons *full load*)
Dimensions :	120 (*o.a.*) × 24 × 8 feet
Guns :	2—20 mm.
Machinery :	Diesel. 2 shafts. B.H.P. : 240 = 6 kts.
Complement :	43

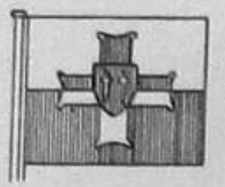
POLAND

Flags.

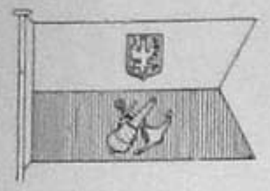


ENSIGN

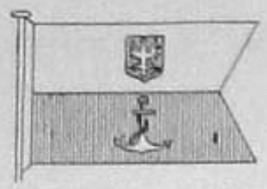
MERCANTILE ENSIGN



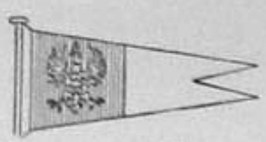
JACK



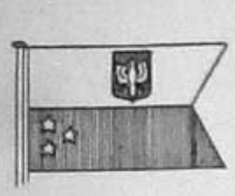
MINISTER OF WAR



CHIEF OF NAVAL DEPARTMENT



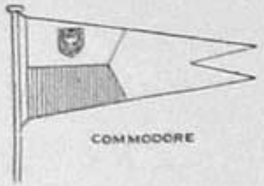
PRESIDENT'S BROAD PENDANT



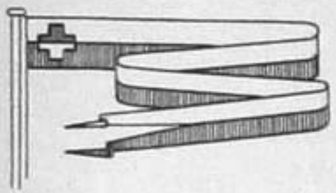
ADMIRAL

VICE ADMIRAL

REAR ADMIRAL



COMMODORE



PENDANT

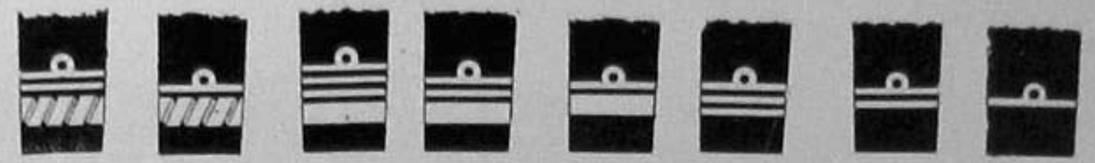
Red Yellow White

Administration.

Minister of National Defence : Marshal Konstanty Rokossowski.

Commander-in-Chief of the Navy : Rear-Admiral Chirokov

Uniforms.



(a)	Wice-Admiral.	Kontr-Admiral.	Komandor.	Komandor Porucznik.	Komandor Podporucznik.	Kapitan.	Porucznik.	Podporucznik
(b)	*Vice-Admiral.*	*Rear-Admiral.*	*Captain.*	*Commander.*	*Commander.*	*Lieut.-Commdr.*	*Lieutenant.*	*Sub-Lieut.*

(a) = Polish rank. (b) = Equivalent British rank.

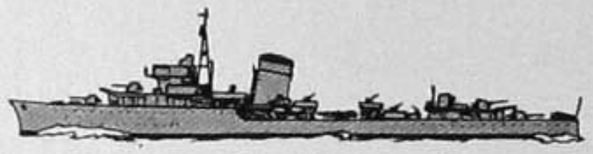
Ships.

Polish warships are referred to officially with the prefix O.R.P.

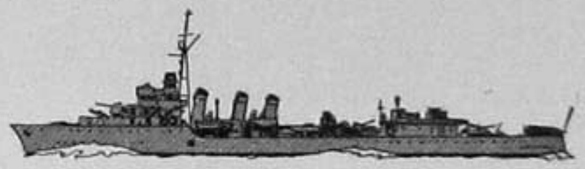
Mercantile Marine.

Lloyd's Register appendix, 1953 : 139 vessels of 278,638 tons *gross*.

Silhouettes.



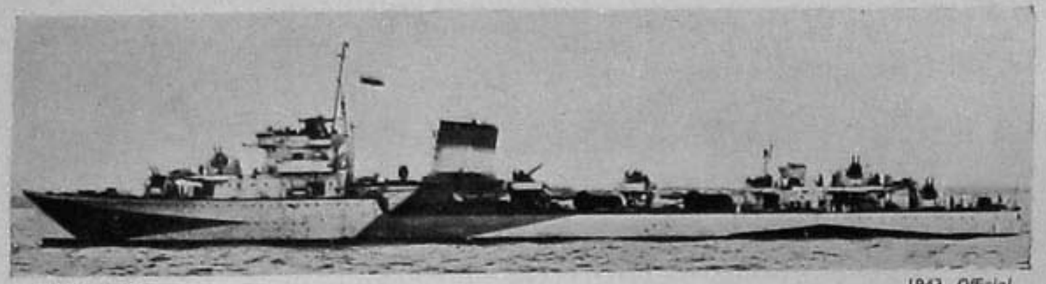
BLYSKAWICA.



BURZA.

CZAJKA *Class.*

2 Destroyers (*Kontrtorpedowe*).

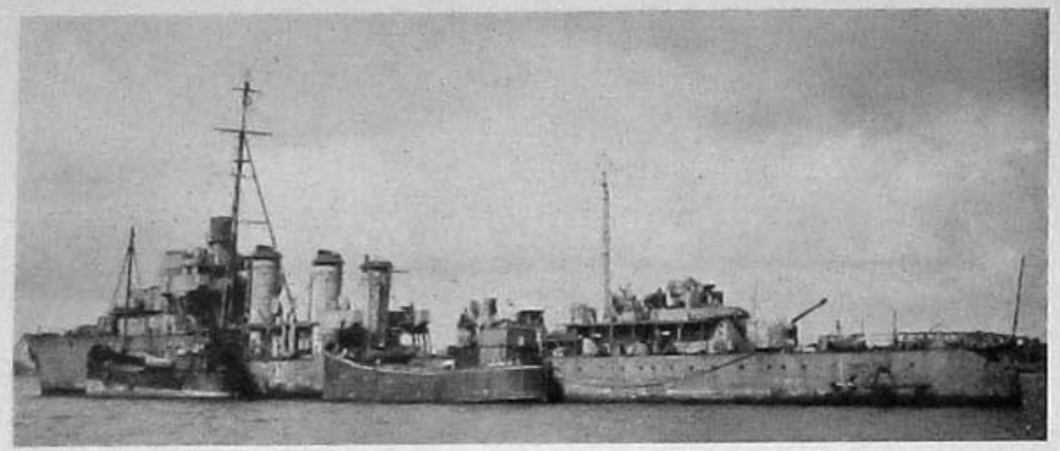


BLYSKAWICA. 1943 *Official*

BLYSKAWICA

Builders :	J. Samuel White & Co., Ltd., Cowes.
Launched :	1 Oct., 1936
Displacement :	2,141 tons *standard*, 3,383 tons *full load*
Dimensions :	357 (*pp.*), 374 (*o.a.*) × 37 × 10¼ feet
Guns :	8—4 inch AA., 4—47 mm. AA, 4—20 mm. AA., 4 M.G.
Tubes :	6—21 inch (tripled). 2 D.C.T.
Mines :	Can carry 7
Machinery :	Parsons geared turbines. 2 shafts. H.P. : 54,000 = 39 kts.
Boilers :	4, of 3-drum type
Complement :	180

Notes.—Name means Lightning. Fitted for minelaying.



BURZA 1951, *C. Parsons, Esq.*

BURZA

Builders :	Chantiers Navals Français, Blainville
Laid down :	1 Nov., 1926
Launched :	16 April, 1929
Completed :	1930
Displacement :	1,515 tons *standard*, 2,430 tons *full load*
Dimensions :	344 (*w.l.*), 351 (*o.a.*) × 29 × 9¼ feet
Guns :	2—5·1 inch, 1—3 inch AA., (see notes), 4—20 mm., 4—2 pdr.
Tubes :	3—21 inch, in triple deck mounting
Machinery :	Geared turbines (supplied by At. & Ch. de la Loire). 2 shafts. S.H.P. : 35,000 = 33 kts.
Boilers :	3 small-tube (reported to be worn out)
Fuel oil :	300 tons
Complement :	145

General Notes.—Design of this vessel closely follows that of French *Simoun* class. Meaning of name is Squall. Was returned to Poland by Great Britain in March 1951. Sister ship *Wicher* (Hurricane) sunk at Gdynia, Sept., 1939.

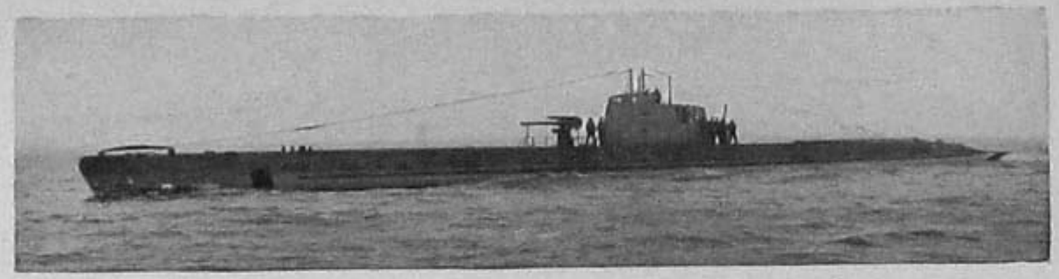
Gunnery Notes.—Reported that most recent armament included one U.S. pattern 5-inch gun in " Y " position, one British pattern 3-inch AA. weapon in " Q " position, and one gun in " B " position.

Submarines (*Okrety Podwodne*).

SEP

Builders:	Rotterdam Dry Dock Co.
Laid down :	1936
Launched :	17 Oct., 1938
Displacement :	1,092 tons *surface* ; 1,450 tons *submerged*
Dimensions :	273¼ (*pp.*), 275¼ (*o.a.*) × 22 × 13 feet
Guns :	1—4·1 inch, 2—40 mm. AA.
Tubes :	8—21 inch. Fitted for minelaying
Machinery :	2 Sulzer Diesels. B.H.P. : 4,740 = 19 kts. *surface* ; H.P. : 1,000 = 9 kts *submerged*
Complement :	56

Notes.—This name means Vulture. A sister ship, the *Orzel* (Eagle), paid for by funds subscribed by the Polish Navy League, was lost in June, 1940.



WILK *Photo courtesy of Messrs. Augustin, Normand.*

3 *Normand-Fénaux* type
RYS (At. & Ch. de la Loire, Nances, April 22, 1929) **WILK** (Ch. & At. Augustin Normand, Le Havre, April 12, 1929.)
ZBIK (Ch. Navals Français, Blainville, June 14, 1930)

Displacement :	965 tons *surface* ; 1,250 tons *submerged*
Dimensions :	246 × 18 × 13 feet
Guns :	1—3·9 inch
Tubes :	6—21·7 inch. Carry 10 torpedoes
Mines :	38
Machinery	2 set Vickers Normand Diesels B.H.P. : 1,800 = 14 kts. (*surface*). Electric motors, H.P. : 1,200 = 9 kts. (*submerged*)
Radius :	3,500 miles (*surface* at 10 kts.), 100 miles (*submerged*)

Notes.—Diving limit : 44 fathoms. Meanings of names are as follows : *Rys*, Lynx ; *Wilk*, Wolf ; *Zbik*, Wild Cat. *Wilk*, prototype of the class, was returned to Poland by Great Britain in March 1951. All were built to Normand plans. Are distinguished by initials of names, painted on C.T. Builders and launch dates above.

Motor Torpedo Boats.

Ex-**MTB 76** Ex-**MTB 116**

Guns :	1—20 mm. AA., 4 M.G.
Tubes :	2 torpedoes
Speed :	38 kts.

Notes.—Ex-Russian, possibly of American PT type. Wood. Launched 1944-45.

198R

Minesweepers (*Wyławiaczemin*).

ORLIK

Added 1951, M. J. Meister.

ALBATROS (AL) **JASKOLKA** (ex-*T* 465) (JK) **KANIA** (KN) **KORMORAN** (KR) **ORLIK** (OL)
CZAPLA (CP) **JASTRZAB** (JS) **KONDOR** (KD) **KROGULEC** (KG)

Displacement :	130 tons
Dimensions :	100 × 16 × 4½ feet
Guns :	2—20 mm. AA. 4 M.G.
Machinery :	Diesel. 3 shafts. B.H.P. : 480 = 10 kts.
Complement :	32

Notes.—Ex-*T* 228, 243, 244, etc. All built in Russia, 1944-45. Same type as Russian *T* 371 class. Engines are American. Respective meanings of above names (which are abbreviated to letters painted on bows for identification, as shown against each) are: Albatross, Heron, Swallow, Hawk, Kite, Condor, Cormorant, Sparrowhawk, Eaglet.

CZAJKA (April 10, 1935) **MEWA** (1935) **RYBITWA** (April 26, 1935) **ZURAW** (Aug. 22, 1938)

Displacement :	142 tons (183 tons *full load*)
Dimensions :	139½ × 21½ × 5½ feet
Guns :	5 M.G. except *Zuraw*, none
Machinery :	Diesel. B.H.P. : 1,040 = 15 kts.
Complement :	30

Notes.—All built in Poland, *Mewa* and *Zuraw* at Gdynia, *Czajka* and *Rybitwa* at Modlin. Launch dates above. Recovered from German hands in 1945. *Czajka* (meaning Lapwing) had been renamed *Westerplatte*, and *Zuraw* (Crane), *Oxhoft*. *Mewa* means Seagul, and *Rybitwa*, Tern ; these two were numbered MT 6 and 7, respectively, by the Germans. *Zuraw* is used as a surveying vessel, *HG* 11.

Added 1951, M. J. Meister.

DELFIN **FOKA** **MORS** **ZODIAK**

Displacement	215 tons
Dimensions :	136 (*o.a.*) × 24½ × 6 feet
Guns :	1—3 inch, 2—20 mm. AA.
Machinery :	Diesels. B.H.P. : 1,000 = 13 kts.

Note.—Former British BYMS. *Zodiac* is employed as a surveying vessel at present.

Submarine Chasers.

SMIALY.

Added 1951, M. J. Meister.

BEZWZGLEDNY (BW) (ex-325) **DZIELNY** (DL) (ex-329) **ODWAZNY** (OW) (ex-371)
BLYSKAWICZNY (BL) (ex-326) **KARNY** (KR) (ex-368) **SMIALY** (SM) (ex-372)
BYSTRY (BS) (ex-327) **NIEDOSCIGLY** (ND) (ex-369) **SPRAWNY** (SP) (ex-546)
DZIARSKI (DR) (ex-328) **NIEUCHWYTNY** (NW) (*ex*-370) **SZYBKI** (SZ) (ex-552)

Displacement :	40 tons
Dimensions :	65 × 11 × — feet
Guns :	1—20 mm. AA., 2 M.G., except *Blyskawiczny* with 2—20 mm. AA., 4 M.G.
Machinery :	Diesel
Speed :	28 kts.
Complement :	22

Notes.—Ex-Russian. Wood. Differentiated by letters painted on bows as noted against each name above. *Blyskawiczny* differs slightly from others in appearance. Meanings of these names are respectively : Absolute, Lightning-swift, Acute, Brisk, Brave Disciplined, Inaccessible, Intractable, Courageous, Bold, Efficient, and Rapid.

Motor Gunboats.

S 1 **S 2**

Note.—Returned to Poland by Great Britain in March 1951.

Oiler.

STUTTHOF

Displacement : 450 tons

Water Carrier.

PLEHMINDORF

Displacement 500 tons

Training Ships.

ISKRA (1917)

Displacement :	560 tons
Dimensions :	128 × 25 × 10 feet
Machinery :	Auxiliary motor. H.P. : 130 = 7·5 kts.
Complement :	58

DAR POMORZA (1909)

Displacement :	1,561 tons
Dimensions :	240 × 41 × — feet

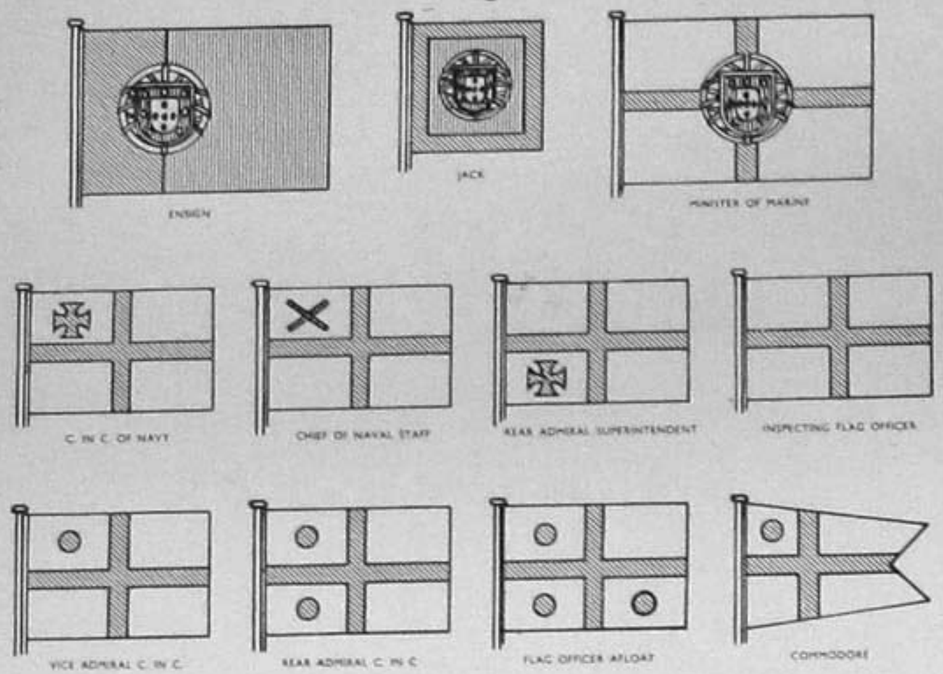
Surveying Vessel.

KOZIOROZEC

Displacement :	219 tons
Dimensions :	111½ × 33 × 10½ feet
Speed :	12 kts.

PORTUGAL

Flags.



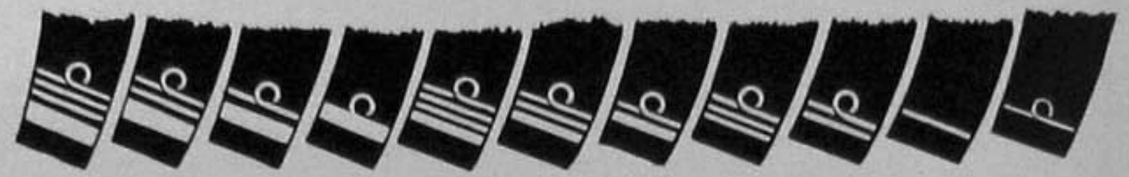
Note.—Naval Aviation has passed under the administration of the Under-Secretary for Aviation.

Administration.

Minister of Marine : Rear-Admiral Américo Deus Rodrigues Tomas.
Commander-in-Chief (Comandante Geral da Armada) : Vice-Admiral Joaquim Maria Alves Pereira da Fonseca.
Chief of the Naval Staff : Rear-Admiral José Augusto Guerreiro de Brito.

Naval Attaché, London : Commander Jacinto Neto Milheiriço.

Uniforms.



Almirante.	Vice-almirante.	Contra-almirante.	Comodoro	Capitão de mar e guerra.	Capitão de fragata.	Capitão-tenente.	Primeiro tenente.	Segundo tenente.	Sub-tenente.	Guarda-marinha.
Admiral.	*Vice-Admiral.*	*Rear-Admiral.*	*Commodore*	*Captain.*	*Commander. (Senior.)*	*Commander. (Junior.)*	*Lieut.-Commander.*	*Lieut.*	*Sub-Lieut.*	*Midshipman.*

The new substantive rank of *Commodore*, equivalent to British Commodore, was established in 1953. (The Portugese Navy used to have *Comodoros* as a temporary rank, lasting only the duration of a commission.)

Staff officers same but *without* executive curl.

There is also the rank of Sub-Tenente (*Sub-Lieutenant*), but only in non-executive branches ; and of Cadete (*Cadet*).

Colour between stripes—			On visor of cap—	
	Surgeons :	red;	*Admirals* :	2 oak leaves
	Engineers :	violet;	*Commodores* :	2 oak leaves;
	Supply officers :	blue;	*Captains* :	1 oak leaf;
	Constructors :	black.	*Commanders* :	1 narrow stripe.

Uniforms like British Navy. Chin strap of gold cord, but officers of lieutenant's rank and below have black chin straps.

Navy Estimates.

1950, Escudos 412,306,691. 1951, Escudos 423,313,985. 1952, Escudos 397,953,649

Personnel.

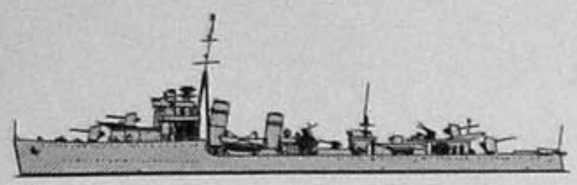
1953-54 : 860 officers and 6,375 men (boys not included.)

Ships.

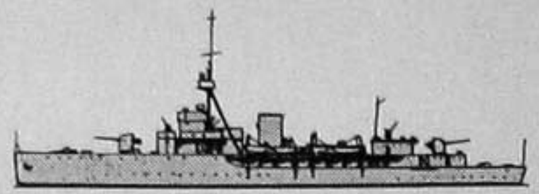
Mode of address : N.R.P. " ——— " (Navio da Republica Portuguesa).
Colour of Ships : Light grey, except Surveying Vessels, white with yellow funnels.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 330 vessels of 538,186 tons gross.



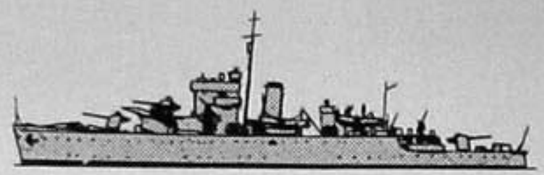
VOUGA *Class.*



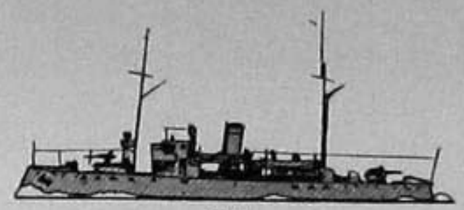
PEDRO NUNES.

ZAIRE.

DIOGO GOMES, NUNO TRISTÃO. *

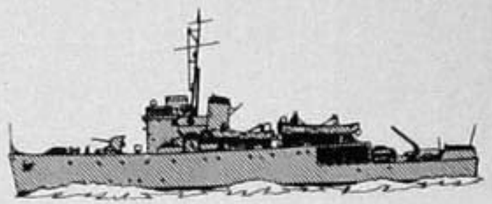


GONÇALVES ZARCO *Class.*



DIU.

AFONSO DE ALBUQUERQUE *Class.**



ALMIRANTE LACERDA.

FARO *Class.*

JOÃO DE LISBOA.

S. MIGUEL *Class.*

S. VICENTE *Class.* *

Destroyers (*Contratorpedeiros*).

5 " Vouga " Class.

VOUGA. 1953, *Official.*

DOURO. 1952, *Wright & Logan.*

DÃO	DOURO	LIMA	TEJO	VOUGA
Displacement :	1,238 tons *standard* (1,563 tons *full load*)			
Dimensions :	307 (*pp.*), 323 (*o.a.*) × 31 × 11 (*mean*) feet			
Guns :	4—4·7 inch, 50 cal., 3—40 mm. AA., 4 D.C.T.			
Tubes :	4—21 inch (quadrupled). Mine rails fitted and 20 mines carried.			
Machinery :	Parsons geared turbines. S.H.P. : 33,000 = 36 kts.			
Boilers :	3 Yarrow (400 lb. pressure)			
Oil fuel :	296 tons *normal*, 345 tons *max.*			
Radius :	4,000 miles			
Complement :	179 *normal*, 184 *full*			

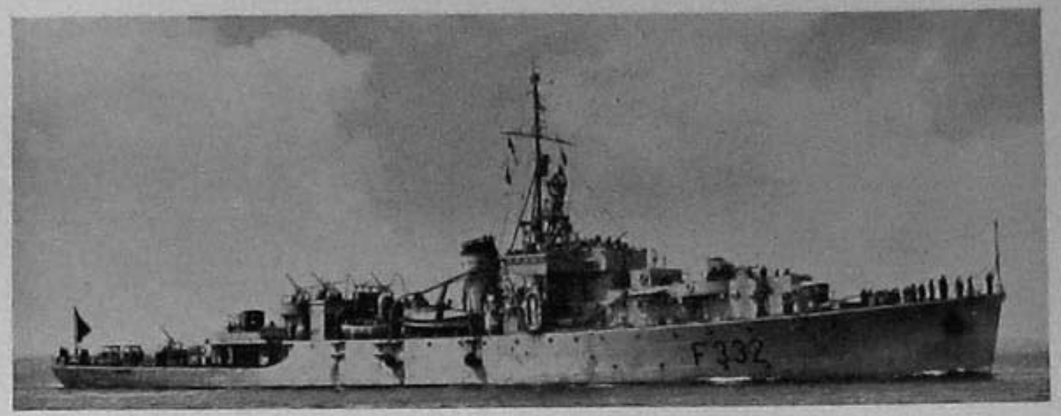
General Notes.—All Yarrow type. *Vouga* and *Lima*, constructed at Scotstoun by Yarrow, as were machinery and boilers of all five. Refitted 1946-49 by Yarrow, and Vickers-Armstrongs. Re-construction and modernisation included retubing of boilers, overhauling of main engines and auxiliaries, shortening of after funnel, new aluminium funnel casings, stepping of a new tripod foremast, increase in AA. armament and installation of Asdic equipment and radar. Two earlier ships of this class, originally named *Douro* and *Tejo*, were sold to Colombia, fresh ships with these names being built to replace them.

Engineering Notes.—First machinery trials gave speeds of 36·65 to 37 knots with ample margin of engine power and boiler capacity.

Pendant Nos.	*Name*	*Builders*	*Launched*	*Completed*
D 331	*Dão*	Lisbon	27 July 1934	Jan. 1935
D 332	*Douro*	Lisbon	16 Aug. 1935	Feb. 1936
D 333	*Lima*	Yarrow	29 May, 1933	Nov. 1933
D 335	*Tejo*	Lisbon	4 May 1935	Oct. 1935
D 334	*Vouga*	Yarrow	25 Jan. 1933	June 1933

Frigates.

2 " Diogo Gomes " Class.



NUNO TRISTÃO. 1952, *Wright & Logan.*

DIOGO GOMES. *Added* 1950, *Official.*

DIOGO GOMES (*ex*-H.M.S. *Awe*)	NUNO TRISTÃO (ex-H.M.S. *Avon*)
Displacement:	1,460 tons (*actual*), 1,370 tons (*designed*), standard (1,865 tons *full load*)
Dimensions :	283 (*pp.*), 301½ (*o.a.*) × 36½ × 12 feet
Guns :	2—4 inch, 6—40 mm. AA.
Machinery :	Triple expansion, 2 shafts. I.H.P. : 5,500 = 20 kts.
Boilers :	2 Admiralty 3-drum type
Oil fuel :	650 tons
Complement :	140

Notes.—Former " River " class frigates. Purchased from Great Britain in 1948 and transferred to Portugal May, 1949. These ships have shown very good endurance and sea-keeping qualities. *Diogo Gomes* no longer has a white band around the funnel.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
F 331	*Diogo Gomes*	Fleming & Ferguson, Ltd., Paisley	27 May 1943	28 Dec. 1943	21 Apr. 1944
F 332	*Nuno Tristão*	Charles Hill & Sons, Ltd., Bristol	8 Jan. 1943	19 June 1943	18 Sep. 1943

Frigates Rated as First Class Sloops (*Avisos de Primeira Classe*).

AFONSO DE ALBUQUERQUE. 1952, R. M. Scott.

BARTOLOMEU DIAS. 1951, *A. J. Pavia.*

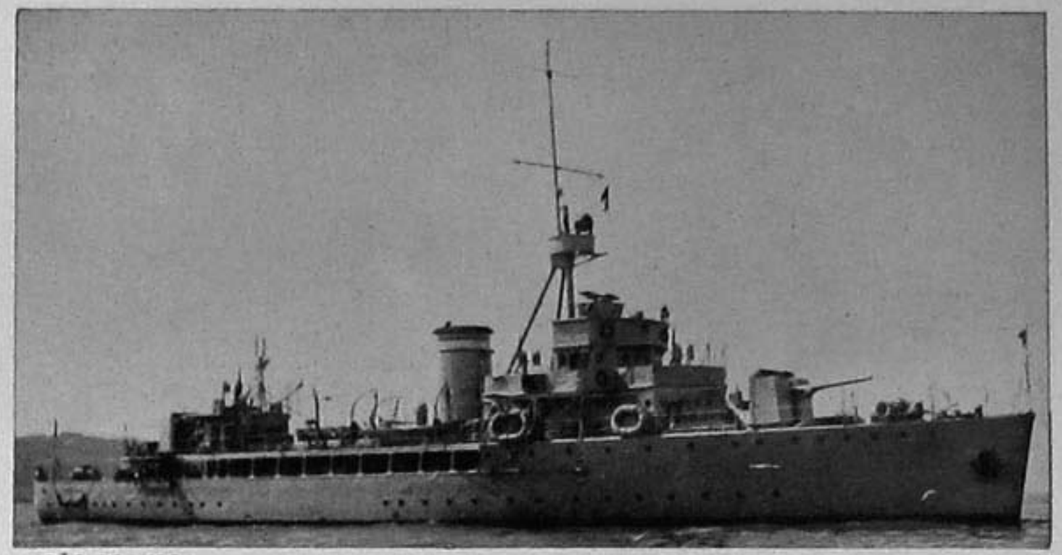
AFONSO DE ALBUQUERQUE — BARTOLOMEU DIAS

Displacement :	1,783 and 1,788 tons *standard*, respectively (2,434 and 2,439 tons *full load* respectively)
Dimensions :	326½ × 44½ × 12½ feet (*mean*)
Guns :	4—4·7 inch, 50 cal., 2—3 inch AA., 8—20 mm. AA., 4 D.C.T.
Machinery :	Parsons geared turbines. S.H.P. : 8,000 = 21 kts.
Boilers :	2 Yarrow
Oil fuel :	580 tons
Radius :	8,000 miles at 10 kts.
Complement :	189 (peace), 229 (war)

Notes.—Original contract placed with Odero-Terni-Orlando, 1931, cancelled 1932, and design modified by new builders when fresh contract was made. Both ships made 22 kts. on trials without being pressed. They are differentiated by the white band around funnel of *Bartolomeu Dias*. Designed for colonial service. Fitted to carry 40 mines.

Name	*Builders*	*Launched*	*Completed*
Afonso de Albuquerque	R. & W. Hawthorn Leslie & Co.	28 May, 1934	Mar., 1935
Bartolomeu Dias		10 Oct., 1934	May, 1935

Frigates Rated as Second Class Sloops (*Avisos de Segunda Classe*)



JOÃO DE LISBOA. 1949, *courtesy Com. Ramalho Rosa P.N.*

PEDRO NUNES. *Added 1950, Official.*

JOÃO DE LISBOA (*ex-Infante D. Henrique*) — PEDRO NUNES

Displacement :	1,091 and 1,090 tons *standard*, respectively (1,218 and 1,197 tons *full load*, respectively)
Dimensions :	*J. de Lisboa*, 234½ (*pp.*), *P. Nunes*, 223 (*pp.*) × 32½ × 9½ (*mean*), 10½ (*max.*) feet
Guns :	2—4·7 inch, 50 cal., 4—20 mm. AA., 4 D.C.T.
Machinery :	2 sets M.A.N. 8 cycle Diesels. B.H.P. : 2,400 = 16·5 kts.
Oil fuel:	110 tons *normal*, 126 tons *max.*
Radius :	8,850 miles at 12 kts., 4,800 at 16 kts.
Complement :	112/138

Notes.—Unlike her sister ship, *Pedro Nunes* is not part of ten-year programme introduced in 1930. *João de Lisboa* has white band round funnel.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
João de Lisboa	Naval Arsenal, Lisbon	1930	21 May, 1936	Aug., 1937
Pedro Nunes			1933	Apr., 1935

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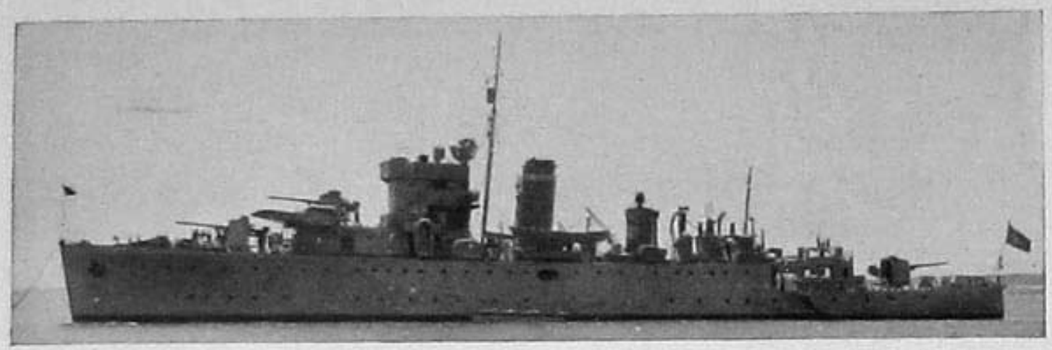
Frigates Rated as Second Class Sloops (*Avisos de Segunda Classe*)—*continued.*

GONÇALO VELHO. 1951, *Lieut. Jorge Wagner, P.N.*



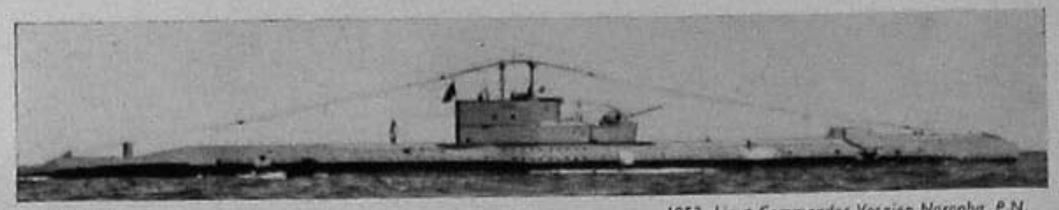
GONÇALVES ZARCO. *Added 1950, Official*

	GONÇALO VELHO	GONÇALVES ZARCO
Displacement :	950 tons *standard* (1,414 tons *full load*)	
Dimensions :	250 (*pp.*), 268 (*o.a.*) × 35½ × 11½ feet (*mean*)	
Guns :	3—4·7 inch, 50 cal., 5—20 mm. AA., 4 D.C.T.	
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 2,000 = 16·5 kts.	
Boilers :	2 Yarrow	
Oil fuel :	335 tons *normal*, 470 tons *max.*	
Radius :	9,831 miles at 11 kts.	
Complement :	128	

Notes.—Mainmast now reduced to little more than a staff. On first full speed trials made a speed of 17·4 knots for four hours. *Gonçalves Zarco* has a white band around the funnel.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Gonçalo Velho	R. & W. Hawthorn, Leslie & Co.	9 Oct., 1931	3 Aug., 1932	May, 1933
Gonçalves Zarco		9 Oct., 1931	28 Nov., 1932	Sep., 1933

Submarines (*Submersiveis*).



NARVAL. 1953, *Lieut-Commander Vasgien Naronha, P.N.*

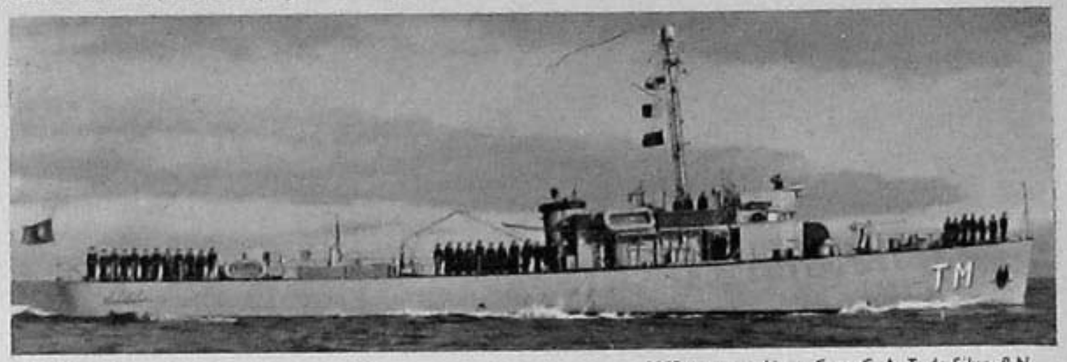
	NARVAL (ex-H.M.S. *Spur*)	NAUTILO (ex-H.M.S. *Saga*	NEPTUNO (ex-H.M.S. *Spearhead*)
Displacement :	715 tons (*standard*), 814 tons (*surface*), 990 tons (submerged)		
Dimensions :	217 (*o.a.*) × 23¾ × 10½ (*mean*) feet		
Guns :	1—4 inch, 1—20 mm. Oerlikon, 3 Vickers GO M.G.		
Tubes :	6—21 inch (*bow*). 12 torpedoes carried.		
Machinery :	Diesels. B.H.P. : 1,900 = 14¾ kts. (*max.*) (*surface*). Electric motors, H.P. : 1,300 = 9 kts. (*max.*) (submerged)		
Oil fuel :	87 tons (*normal stowage*)		
Complement :	44		

Notes.—All purchased from Great Britain in 1948. Designed for offensive operations in confined waters. Names on conning tower.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Narval	Cammell Laird	1 Oct., 1943	17 Nov., 1944	18 Feb., 1945
Nautilo		5 Apr., 1944	14 Mar., 1945	14 Jun., 1945
Neptuno		18 Aug., 1943	2 Oct., 1944	21 Dec., 1944

Submarine Chasers (*Patrulhas*).

New Construction:—3 patrol craft (PC) of U.S. design are building in the United States under the Mutual Defense Assistance Program



S. TOMÉ. 1953, *courtesy Lieut.-Com. C. A. T. da Silva, P.N.*

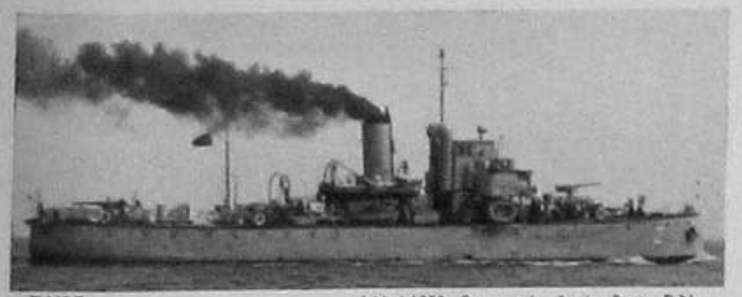
P 581 FLORES (*ex-PC 812*)
P 582 MADIERA (*ex-PC 811*)
P 584 SAL (*ex-PC 809*)
P 583 S. TIAGO (*ex-PC 1257*)
P 585 S. TOMÉ (*ex-PC 1256*)
P 586 S. VICENTE (*ex-PC 1250*)

Displacement :	280 tons (450 tons *full load*)
Dimensions :	170 (*w.l.*), 173¾ (*o.a.*) × 23 × 7½ feet
Guns :	1—3 inch, 1—40 mm. AA., 5—20 mm. AA.
Machinery :	2 G.M. 2-stroke Diesels. 2 shafts. B.H.P. : 2,600 = 19 kts.

Notes.—Purchased from United States. Named after Portuguese Atlantic islands. For Air/sea rescue duties in Azores, Madeira, and off Portuguese coast.

187R

Gunboats (*Canhoneiras*).



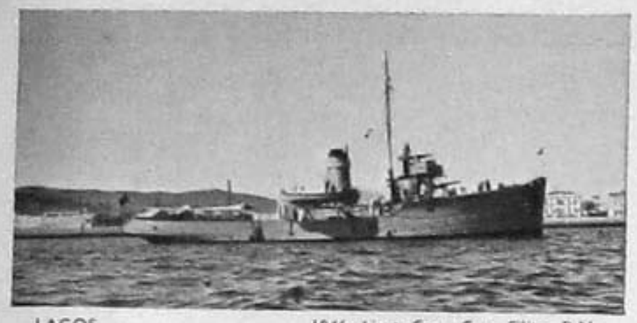
ZAIRE. *Added 1953, Commander Aguiar Basto, P.N.*

DIU **ZAIRE** (ex-Goa)

Displacement:	397 tons *standard* (492 tons *full load*)
Dimensions:	147½ × 27½ × 7 feet
Guns :	2—3 inch, 40 cal. (Armstrong), 2—47 mm. in *Diu*, 2—3 inch, 2—20 mm. AA., 2 D.C.T. in *Zaire*
Machinery :	Triple expansion. 2 shafts. H.P. : 700 = 13 kts.
Boilers :	Yarrow
Coal :	85 tons
Radius :	3,200 miles at 9 kts.
Complement :	67

Notes.—Identification letters : *Diu*, none ; *Zaire*, Z. The forward gun is now at the forecastle level (see photo, by courtesy of Lieut.-Com. R. Ferraz de Carvelho).

Name	*Builders*	*Launched*
Diu	Lisbon Dockyard	Oct., 1929
Zaire	Lisbon Dockyard	26 Feb., 1925



LAGOS. *1946, Lieut.-Com. Cruz Filipe, P.N.*

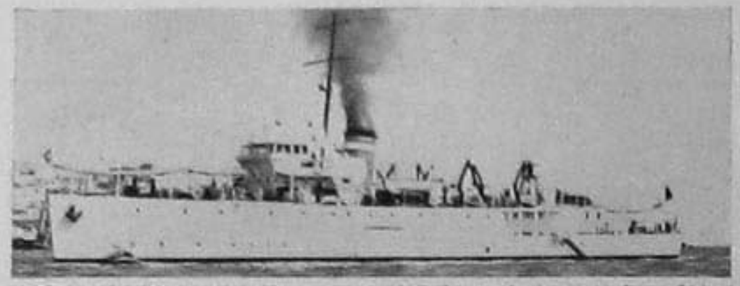
FARO **LAGOS**

Displacement :	295 tons
Dimensions :	120 (*pp.*), 130½ (*o.a.*) × 22 × 10½ feet
Guns :	2—47 mm.
Machinery :	Triple expansion. I.H.P. : 650 = 13 kts.
Boilers :	1 Yarrow
Oil fuel :	42 tons
Radius :	2,000 miles at 7·5 kts.
Complement :	55

Note.—*Lagos* has white band round funnel.

Name	*Builders*	*Launched*
Faro	Lisbon Dockyard	1927
Lagos	Lisbon Dockyard	1930

Surveying Vessels (*Navios Hidrográficos*).



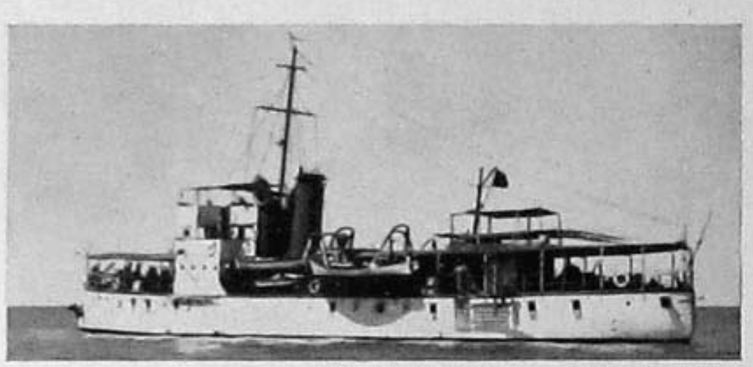
COM. ALMEIDA CARVALHO *1953, Commander Botelho de Souza, P.N.*

ALMIRANTE LACERDA. *1948, Commander Luis de Naronha e Andrade, P.N.*

ALMIRANTE LACERDA (ex-*Caraquet*)
COMANDANTE ALMEIDA CARVALHO (ex-*Fort York, ex-Mingan*)

Displacement :	672 tons
Dimensions :	171½ (*pp*), 180 (*o.a.*) × 28½ × 9½ (*max.*) feet
Guns :	1—3 inch, 2—20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,400 = 16 kts.
Boilers :	2, of 3-drum small-tube type
Oil fuel :	160 tons

Notes.—Former British fleet minesweepers. Built in Canada, launched 2 June and 24 Aug. 1941, and purchased from Great Britain in 1946 and 1950, respectively. *Comandante Almeida Carvalho* has a white band round funnel.



1953, *Lieut.-Commander Lopes de Mendonça, P.N.*

MANDOVI

Displacement :	397 tons
Dimensions :	147½ × 27½ × 7 feet
Guns :	4—47 mm.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 700 = 13 kts.
Boilers :	2 cylindrical
Coal :	85 tons

Notes.—Built at Lisbon. Launched in 1917. *Ibo* removed from the effective list.

Surveying Vessels—*continued.*

1952, *Commander Manuel Affonso Dias, P.N.*

CARVALHO ARAUJO (ex-*Jonquil*)

Builders :	Chas. Connell & Co., Scotstoun.
Launched :	May 1915
Displacement :	900 tons *standard* (1,190 tons *full load*)
Dimensions :	250 (*p.p.*), 262½ (*o.a.*) × 33 × 11 (*mean*), 11½ (*max.*) feet
Machinery :	Triple expansion. I.H.P. : 2,242 = 17·25 kts.
Boilers :	2 cylindrical
Complement :	90

Notes.—Purchased from Great Britain in 1920. Refitted 1928-30 for Colonial Service. In 1937 adapted for use as a Surveying Vessel, guns being removed and a deck-house for use of cartographers added immediately abaft mainmast.

Minesweepers (*Draga-minas*).

New Construction.—4 minesweepers building in U.S. to U.S. design under the Mutual Defence Assistance Program.

S. MIGUEL. *1953, Lieut.-Commander Vasgien Naronha, P.N.*

BALDAQUE DA SILVA (ex-*Ruskholm*) **S. MIGUEL** (ex-*P 1, ex-Brurey*)
FAIAL (ex-*P 2, ex-Mangrove*) **SANTA MARIA** (ex-*P 4, ex-Whalsay*)
SALVADOR CORREIA (ex-*Saltarelo*) **TERCEIRA** (ex-*P 3, ex-Hayling*)

Displacement:	545 to 560 tons (770 to 800 tons *full load*)
Dimensions:	152 × 27½ × 15 feet
Guns:	1—3 inch, 2—20mm. AA. ,D.C. carried
Machinery:	Triple expansion. I.H.P. : 850 = 12 kts.
Complement:	36

Notes.—Trawlers purchased from Great Britain in 1945 and 1947, and named after islands in the Azores. *Salvador Correia*, rated as a patrol vessel (*Navio Patrulheiro*), and *Baldaque da Silva*, Oceanographical Research Vessel (*Navio oceanográfico*), painted white with yellow funnel, are both in service in Portugese West Africa (Angola).

Pendant No.	*Name*	*Builders*	*Launched*
	Baldaque da Silva	Goole S. B. & Repair Co.	4 Feb. 1942
M 401	*Faial*	Ferguson Bros., Ltd.	15 Feb. 1940
	Salvador Correia	Henry Robb, Ltd.	6 Aug. 1940
M 403	*S. Miguel*	Cook, Welton & Gemmel	1 June 1942
M 404	*Santa Maria*	Cook, Welton & Gemmel	4 Apr. 1942
M 402	*Terceira*	Cook, Welton & Gemmel	17 Aug. 1942

Coastal Minesweepers (*Draga-minas*).

8 U.S. AMS Type.

ANGRA DO HEKOISMO
HORTA
PONTA DELGADA (ex-U.S.S. *Adjutant*, AMS 60)
SANTA CRUZ
VILA DO PORTO

Displacement :	375 tons
Dimensions :	138 (p.p.), 144 (o.a.) × 27 × 8 feet
Machinery :	Diesel. Speed 14 kts.
Complement :	39.

Notes.—*Porto Delgado*, M 405, Transferred from United States 7 Apr. 1953. All wooden and non-magnetic construction. First of group of AMS 60 class motor minesweepers specially constructed for NATO nations. Completed 1953. Three more building in U.S.

VULCANO

Builders :	Thornycroft
Launched :	Feb., 1910
Displacement :	127 tons
Dimensions :	110 × 19½ × 7½ feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 500 = 13 kts.
Boiler :	Thornycroft
Complement	27

Notes.—Used for minelaying and minesweeping instruction only.

River Gunboat (*Lancha-Canhoneira*).

TÊTE

Builders :	Yarrow & Co., Ltd.
Launched :	1918
Displacement :	100 tons
Dimensions :	76½ × 20 × 2½ feet
Guns :	2—47 mm., 2 M.G.
Machinery :	Stern-wheel propulsion. H.P. : 70 = 8 kts.
Boilers :	1 Yarrow

Notes.—Re-launched at Chinde in 1920. Employed on Zambesi River.

Lighthouse Tender (*Navio Balizador*).

1953, Lieut.-Com. Almeida Joglar, P.N.

ALMIRANTE SCHULTZ

Builders :	Penhoët
Launched :	1929
Displacement :	520 tons
Dimensions :	131½ × 31 × 10½ feet
Machinery :	2 sets Rateau Diesels. B.H.P. : 1,950 = 9 kts.
Oil fuel :	21 tons
Complement :	48

Note.—Now has upper bridge built in (see photo).

Fishery Protection Launches.

(*Lanchas da Fiscalização da Pesca*).

BICUDA. 1953, Lieut.-Com. Lopes Marques, P.N.

AZEVIA
BICUDA
CORVINA
DOURADA
ESPADILHA

Displacement :	200 tons (250 tons *full load*)
Dimensions :	134½ (pp.), 139½ (o.a.) × 21½ × 7 (*max.*) feet
Guns :	2—20 mm. AA., 2 M.G.
Machinery :	2 sets 7-cyl. 2-stroke Sulzer Diesels in all except first pair, which have 2 sets 10-cyl. 4-stroke M.A.N. Diesels. 2 shafts. B.H.P. : 2,400 = 17 kts.
Oil fuel :	25 tons
Radius :	3,700 miles at 11 kts., 850 miles at full speed
Complement :	25

Notes.—All launched 1941-42. These vessels are differentiated by initials of names painted on bows. *Fetaça* wrecked and total loss, Jan 22, 1949.

Rescue Motor Launches (*Lanchas de socorro*).

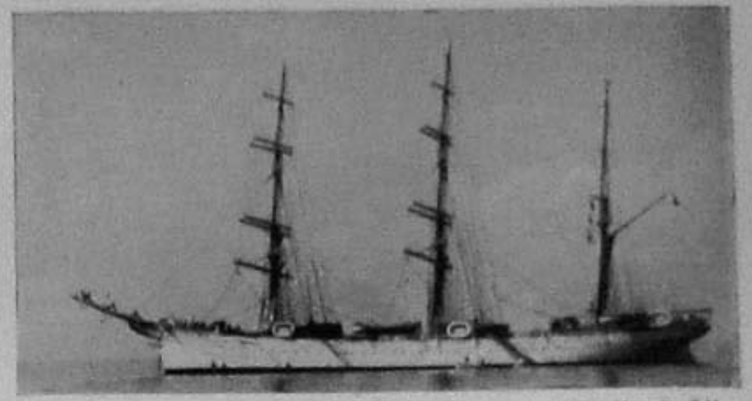
ALTAIR. 1949.

ALTAIR
CANOPUS
DENEB
ESPIGA
FORMALHAUT

Displacement :	65 tons (82 tons *full load*)
Dimensions :	112 × 17½ × 4 feet
Machinery :	2 Hall-Scott engines. B.H.P. : 1,120 = 21 kts. (sea speed, 18 kts.)
Complement :	15

Notes.—Ex-Fairmile B type *MLs*. Purchased from Great Britain in 1946. Respective Pendant Nos. are L1, L3, L4, L5, L6. Employed as rescue launches. Governments of Angola and Mozambique are reported to have purchased some MLs for local patrol duties. *Belatrix*, L 2, discarded 1951.

Training Ship (*Navio-Escola*).



SAGRES. 1953, Lieut.-Commander Vasgien Noronha, P.N.

SAGRES (ex-*Flores*, ex-*Max*, ex-*Rickmer Rickmers*)

Built :	Bremerhaven
Launched :	1896
Displacement :	3,067 tons (3,176 tons *full load*)
Dimensions :	263½ × 40½ × 19 feet
Guns :	4—57 mm.
Machinery :	2 Krupp Diesels. 2 shafts. B.H.P. : 700 = 8 kts.
Complement :	181 + 196 personnel under training

Notes.—Captured German sailing vessel, re-rigged as a barque and adapted as a naval training ship, 1924-27 ; auxiliary motors fitted in 1931.

Fleet Oiler (*Navio Petroleiro*).

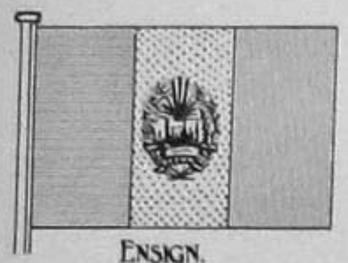
SAM BRAS. Added 1952, Official.

SAM BRAS

Built :	Alfeite.
Launched :	17 Mar., 1942.
Measurement :	7,000 tons gross
Capacity :	3,500 tons
Dimensions :	336½ (pp.), 356½ (o.a.) × 50½ × 18 (*max.*) feet
Guns :	1—3·9 inch AA.
Machinery :	B. & W. 2-stroke Diesel. B.H.P. : 11,500 = 12 kts.
Oil fuel :	400 tons
Complement :	51

ROUMANIA

Flags.

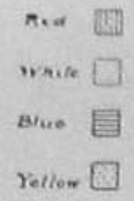


ENSIGN.

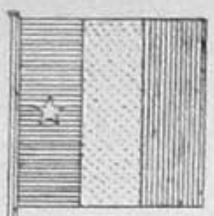
COMMANDER-IN-CHIEF

(When the C.-in-C. is a Vice-Admiral, this flag carries two stars and crossed anchors.)

MINISTER OF WAR

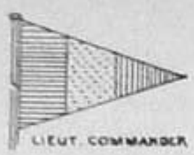


VICE ADMIRAL

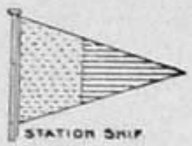


REAR ADMIRAL

CAPTAIN OR COMMANDER



LIEUT. COMMANDER

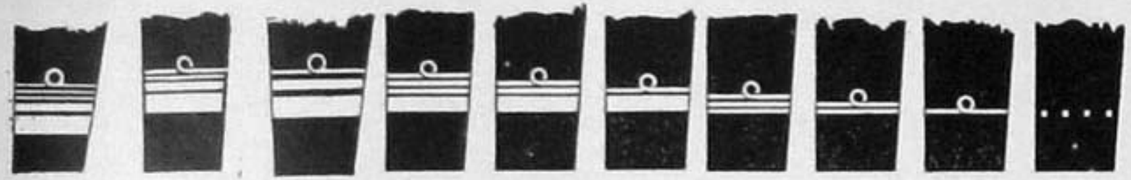


STATION SHIP

Administration.

Minister of Defence : General Emil Bodnaras.

Uniforms.

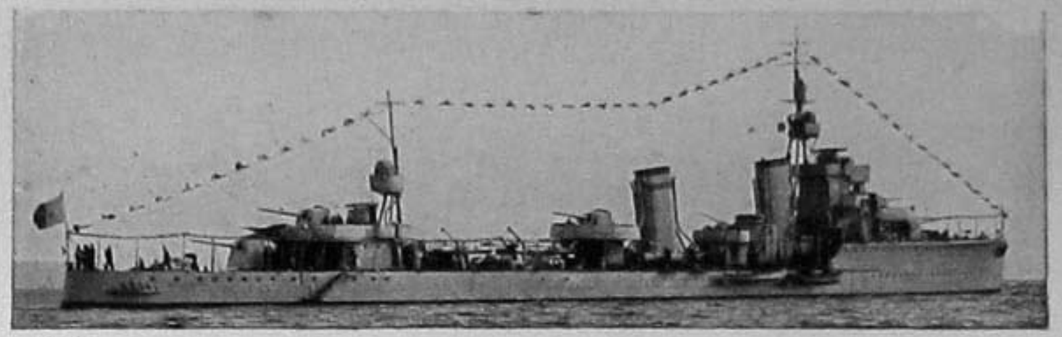


Amiral.	Vice-Amiral.	Contr'-Amiral.	Comandor.	Capitan-Comandor.	Locotenent Comandor.	Capitan de Marină.	Locotenent de Marină.	Aspirant de Marină.	Elev din Scoala de Marină.
Admiral.	*Vice-Admiral.*	*Rear-Admiral.*	*Captain.*	*Commander.*	*Lt.-Com.*	*Senr.-Lieut.*	*Lieutenant.*	*Sub.-Lieut.*	*Midshipman.*

Stripes are gold (except *Supply Officers*, silver) with curl for all branches. Colour of silk between, above and below stripes : *Executive* ; Black, *Engineers*, violet ; *Surgeons*, dark red, almost purple in colour ; *Constructors*, light blue ; *Apothecaries*, green ; *Musical Director*, light grey.

Destroyers (*Distrugătoare*).

Black Sea Division (*Divizia de Mare*).



LIKHOI.

LETUCHI (ex-*Regina Maria*)		**LIKHOI** (ex-*Regele Ferdinand*)
Displacement:	1,785 tons	
Dimensions:	334½ × 31½ × 11½ feet	
Guns (Bofors):	5—4·7 inch, 50 cal., 1—3 inch AA., 2—40 mm. AA., 3 M.G.	
Tubes:	6—21 inch (tripled)	
Mines:	50	
Machinery:	Parsons geared turbines by Stab. Tecnico Triestino. 2 shafts. S.H.P.: 42,000 = 38 kts.	
Complement	212	

Notes.—Launched 2 Mar. 1929 and 2 Dec. 1928, respectively. Built at Naples to design of J. Thornycroft, & Co. Ltd., Woolston Southampton. Returned by Russia by whom they were captured from Roumanian Navy in 1944.

MĂRĂŞTI (ex-Italian *Sparviero*)		**MĂRĂŞEŞTI** (ex-Italian *Nibbio*)
Displacement:	1,410 tons *standard* (1,723 tons *full load*)	
Dimensions :	309½ (*pp.*) × 31 × 11½ feet	
Guns :	4—4·7 inch, 2—37 mm. AA., 2 M.G. (see notes)	
Tubes :	4—17·7 inch in twin deck mountings	
Machinery :	2 Tosi turbines. 2 shafts. Designed S.H.P. : 45,000 = 34 kts.	
Boilers :	5 Thornycroft oil-burning	
Oil fuel :	260 tons = 1,700 miles at 15 kts., 380 miles at full speed	
Complement :	139	

General Notes.—Built by Pattison, Naples, ordered for Roumanian Navy about 1913, and requisitioned by Italy in 1915. Launched 1919 and 1918, respectively. They were re-purchased by Roumania, 1920, and renamed after actions fought in 1917. Refitted and rermed at Galatz and Naples, 1925-26. Equipped for minelaying. Pendant Nos. D 11 and D 12.

Gunnery Notes.—Reported to have been rearmed with German guns during the war.

Submarines.

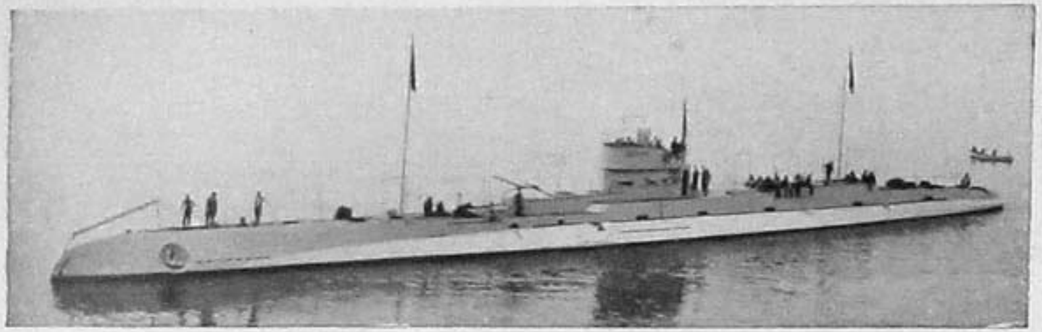
Added 1953, courtesy M. J. Meister.

MARSUINUL (S2)

Builders :	Galatz Shipbuilding Yard
Laid down :	1938
Launched :	4 May 1941
Completed :	1942
Displacement :	620 tons (*surface*)
Dimensions :	190½ × 18½ × 11½ feet
Guns :	1—4·1 inch (105 mm.), 1—37 mm. AA.
Tubes :	6—21 inch (4 bow, 2 stern), 12 torpedoes carried
Machinery :	Diesels. 2 shafts. B.H.P. : 1,840 = 16 kts. Electric motors = 9 kts.

REQUINUL (S 1)

Builders :	Galatz Shibpuilding Yard
Laid down :	1938
Launched :	22 May 1941
Completed :	1942
Displacement :	650 tons (*surface*)
Dimensions :	223 × 19½ × 11½ feet
Guns :	1—20 mm. AA.
Tubes :	4—21 inch (bow)
Mines :	40
Machinery :	Diesels. 2 shafts. B.H.P. : 1,840 = 17 kts. Electric motors = 9 kts.



DELFINUL

Builders :	Quarnaro
Launched :	22 Jun., 1930
Displacement :	640 tons (*surface*) 886 tons (*submerged*)
Dimensions :	225 × 19½ × 12 feet
Guns :	1—4 inch, 35 cal.
Tubes :	8—21 inch
Machinery :	Sulzer Diesels and electric motors. Speed : 14 kts. (*surface*) 9 kts. (*submerged*)

Notes.—Completed 1931, but not taken over by Roumania until April, 1936. Received considerable damage during the war, and is now of doubtful efficiency

Minelayer (*Puitoare de Mine*).

AMIRAL MURGESCU. *Added* 1951, *Dr. Erich Gröner.*

AMIRAL MURGESCU

Displacement :	812 tons *standard*
Dimensions :	252½ (*o.a.*) × 29½ × 8½ (*mean*) feet
Guns :	2—4 inch D.P., 2—37 mm. AA., 2 D.C.T.
Mines :	135
Machinery :	2 Krupp Diesels. B.H.P. : 2,100 = 16 kts.
Radius :	3,400 miles at 12 kts.
Complement :	78

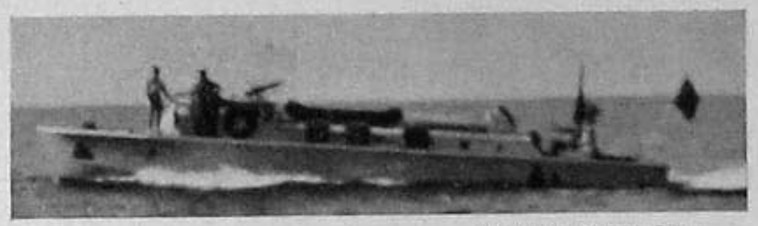
Notes.—*Amiral Murgescu*, built by Galatz, launched 14 June, 1939. Existence of sister ship *Cetatea Alba* has been questioned.

Motor Torpedo Boats.

No. 10 (ex-S 151) **No. 11** (ex-S 152) **No. 12** (ex-S 153) **No. 13** (ex-S 154)

Displacement :	65 tons
Tubes :	2—19·7 inch
Machinery :	3 sets Mercedes-Benz. B.H.P. : 2,850 = 30 kts.
Complement :	25

Note.—All ex-German craft. Reported to have been seized by the Russians.



Added 1951, *Dr.Erich Gröner.*

No. 4 **No. 5** **No. 6** **No. 7** **No. 8** **No. 9**

Guns:	2—20 mm. AA.
Tubes :	2—18 inch

Notes.—All launched 1939. Built in Roumania to British Power Boat Co. design.

185R

Patrol Boats (*Torpiloare*).

SBORUL. 1934.

SBORUL (ex-*T 81*) **SMEUL** (ex-*T 83*)

Displacement:	258 tons
Dimensions :	189½ × 19 × 5 feet
Guns :	2—11 pdr., 2 M.G. (*Smeul*)
Torpedo tubes :	4—17·7 inch (*Sborul*)
Machinery :	Turbines, 2 Shafts, S.H.P. : 5,000 = 24 kts.
Boilers :	2 Yarrow
Fuel :	20 tons coal + 34 tons oil

Notes.—Ex-Austrian. *Sborul* means Flight. *Smeul* means Dragon. Appearance similar to *Sborul*, but two funnels (see Yugo-Slav **T 5**)

Pendant Nos.	*Name*	*Builders*	*Launched*
E 2	*Sborul*	Stab. Tecnico Triestino, Trieste	1913
E 1	*Smeul*	Ganz-Danubius Co., Porto Re, Fiume	1914

Gunboats (*Canoniere*).

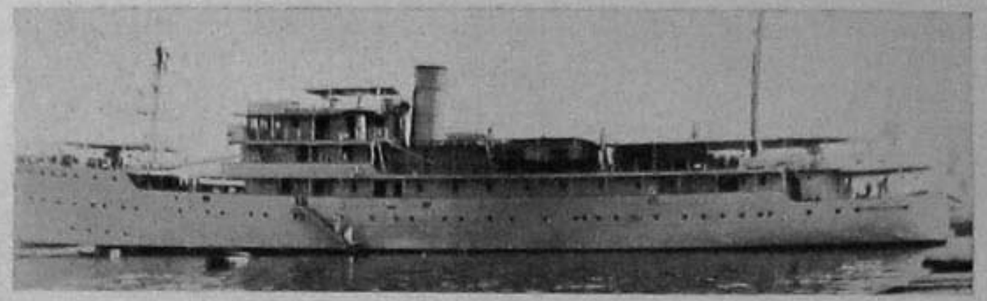
SUBLOCOTENENT GHICULESCU. *Added 1951, Erich Groner.*

LOCOTENENT-COMANDOR STIHI EUGEN (ex-French *Friponne*, Lorient D.Y., 1916)
SUBLOCOTENENT GHICULESCU (ex-French *Mignonne*, Brest D.Y., 1917)

Displacement :	443 and 344 tons respectively
Dimensions :	199½ × 22½ × 9½ and 7½ feet respectively
Guns :	2—3.9 inch, 2 M.G.
Machinery :	2 sets of Sulzer Diesel motors. B.H.P. : 900 = 15 kts.
Oil fuel :	30 tons
Radius :	3,000 miles at 10 kts., 1,600 miles at 15 kts.
Complement :	50

Notes.—Builders and launch dates above. Purchased from French Navy, Jan. 9, 1920. Entered service Jan. 15, 1920. Are differentiated by coloured rings around crow's-nest. Names are those of naval officers killed in action, 1916-18. Pendant Nos. D 61, D 62.

Submarine Depot Ship (*Navă Bază*).



1947, *M. G. Oussaroff.*

CONSTANTA

Builders :	Quarnaro Yard, Fiume
Laid down :	15 Aug., 1927
Launched :	8 Nov., 1928
Completed :	1931
Displacement :	1,329 tons
Dimensions:	255½ × 37 × 13½ feet
Guns :	2—4 inch, 2—40 mm.
Machinery:	2 sets Diesels. B.H.P. : 1,000 = 13 kts.
Radius :	12,000 miles

Notes.—Fitted with engineering and torpedo shops ; bakery ; torpedo loading room ; salvage, diving and submarine signalling apparatus.

Yachts (*Jachturi*).

LUCEAFARUL (ex-*Nahlin*)

Builders:	Clydebank
Launched :	1930
Displacement :	2,050 tons
Dimensions :	250 (*w.l.*), 296 (*o.a.*) × 36 × — feet
Machinery :	4 Brown-Curtis geared turbines. 2 shafts. S.H.P. : 4,000 = 17·5 kts.
Boilers :	2 Yarrow. Oil fuel.

Note.—Purchased in 1937.

TAIFUN

Builders :	J. Samuel White & Co., Ltd., Cowes
Launched :	1938
Thames Measurement	34 tons
Dimensions :	54 × 12½ × 3 feet
Machinery :	2 petrol motors, 2 shafts

Note.—Of wooden construction.

Sail Training Ship (*Navă Şcoală*).

MIRCEA

Builders :	Blohm & Voss, Hamburg
Laid down :	30 April, 1938
Launched :	22 Sept., 1938
Displacement :	1,604 tons
Dimensions :	239½ (*o.a.*), 267½ (*with bowsprit*) × 39½ × 16½ feet
Sail area :	18,830 sq. ft.
Machinery :	Auxiliary M.A.N. 6-cylinder Diesel. B.H.P. : 500 = 9·5 kts.
Complement :	83 + 140 midshipmen for training

Note.—Delivered March 29, 1939.

RUSSIA (U.S.S.R.)

Note.—It is extremely difficult to obtain accurate data of Russian warships, but particulars in the following pages have been revised in 1953 according to information from available sources.

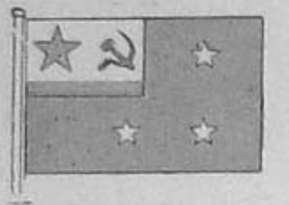
Flags.

NAVAL ENSIGN.

JACK.

COMMANDER IN CHIEF.

CHIEF OF STAFF.

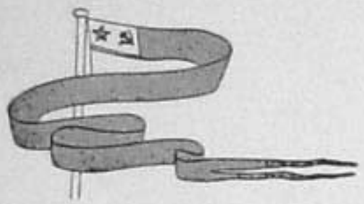

OFFICER COMMANDING NAVAL FORCES.

SENIOR FLAG OFFICER.

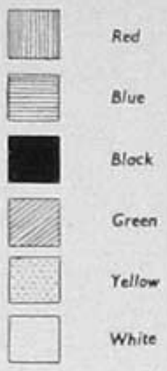
JUNIOR FLAG OFFICER.

COMMODORE.

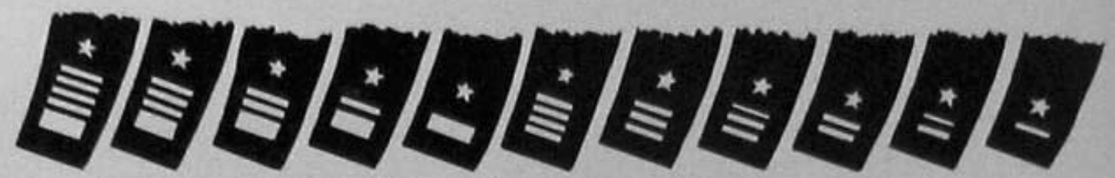
SENIOR OFFICER AFLOAT


PENDANT.

COMMANDER OF FLOTILLA.



Uniforms.



Admiral Flota.	Admiral.	Vitse Admiral.	Kontr Admiral.	Kapitan I Ranga.	Kapitan II Ranga.	Kapitan III Ranga.	Kapitan Leitenant.	Starshi Leitenant.	Leitenant.	Mladshi Leitenant.
Admiral of the Fleet.	*Admiral.*	*Vice-Admiral.*	*Rear-Admiral.*	*Captain.*	*Captain (junior).*	*Commander.*	*Lieut.-Commander.*	*Lieutenant.*	*Sub-Lieut.*	*Acting Sub-Lieut.*

There are now 5 admirals' and 6 officers' ranks in the Soviet Navy.

Ranks are also distinguished by insignia on shoulder straps as follows:—

General Admiral (Marshal in the Army) or which there is no equivalent British rank, has 5 stars.
Executive Officers have *golden* shoulder straps with *silver* stars and *black* stripes.
Engineers similar, but with narrow stripe of *red* around the shoulder strap.
Constructors have *silver* shoulder straps with *golden* stars and *red* stripes.
Surgeons have *silver* shoulder straps with *golden* stars and *black* stripes.
Civilian Officers have *narrower* shoulder straps of *silver* with golden stars and *black* stripes.

Administration and Command.

Minister of the Navy : Admiral Kusnetsov.
Chief of Naval Staff: Admiral of the Fleet Galler.
Commander-in-Chief, Baltic Fleet: Admiral Tributs.
Commander-in-Chief, Far East Fleet : Admiral of the Fleet I.S. Yumashev.
Commander-in-Chief, Black Sea Fleet: Admiral Nikolai Bassisty.

The new independent Ministry of the Navy, was created 25 Feb. 1950 and the appointment of Commander-in-Chief, Naval Forces was abolished.

Navy Estimates.

1950-51: 15,400,000,000 roubles. 1952-53 : 20,000,000,000 roubles.

Personnel.

Total 520,000 officers and men, including river flotillas, training establishments, coast-artillery and marines ; but not including naval air forces.

Naming of Warships.

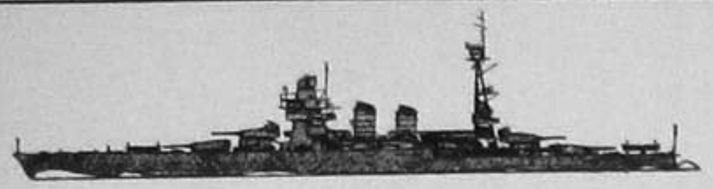
Battleships after countries, famous battles and victories
Cruisers after political leaders and famous admirals
Flotilla leaders after cities and towns
Destroyers after adjectives
Torpedo boats after birds and winds
Submarines after fishes and animals
Minesweepers after weapons and ship equipment
Minelayers and *Netlayers* after rivers and lakes
Gunboats after tribes
Surveying vessels after astronomical terms
Depot ships after towns and rivers
Icebreakers after political leaders, Arctic explorers

Colour of Warships.

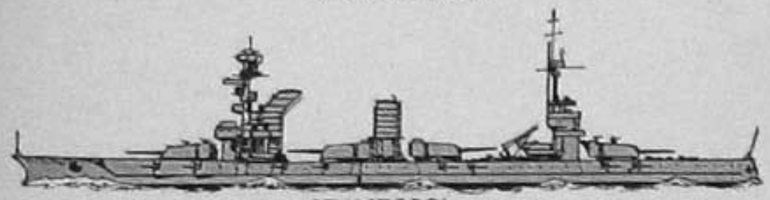
Naval vessels : Light grey all over.
Auxiliaries : Painted somewhat darker grey.
Surveying vessels : Black hulls with red waterlines, yellow funnels with black tops.

Mercantile Marine

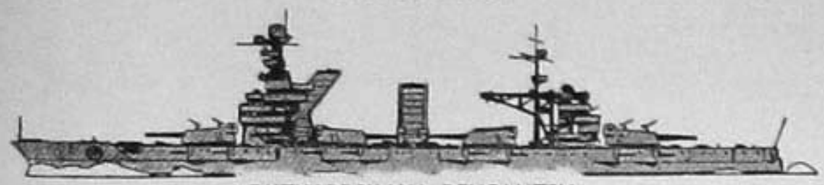
Lloyd's Register appendix, 1953 : 1,023 vessels of 2,266,885 tons gross.



NOVOROSSIISK.

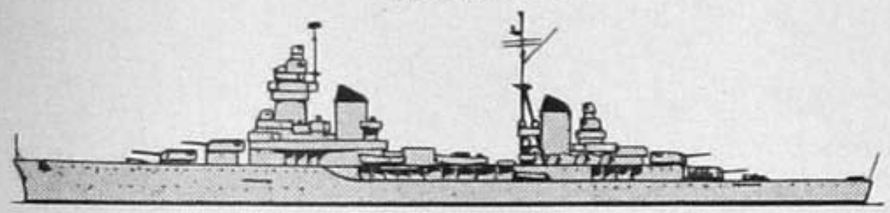


SEVASTOPOL.

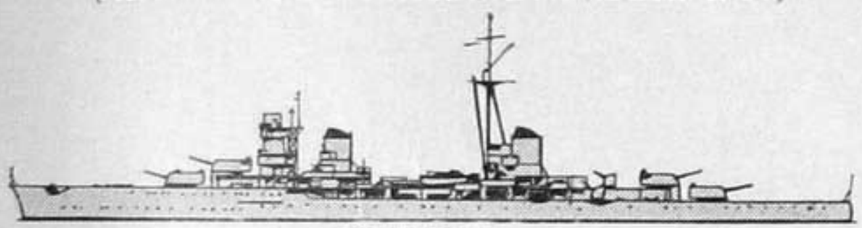


OKTYABRSKAYA REVOLUTSIA.
(Now no aircraft crane. Has AA. on forecastle and on lower quarter deck)

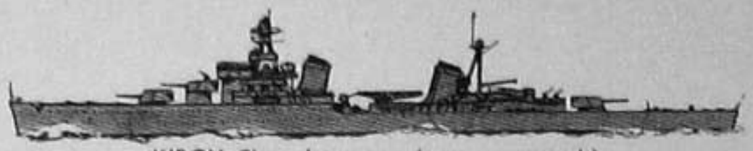
SVERDLOV*



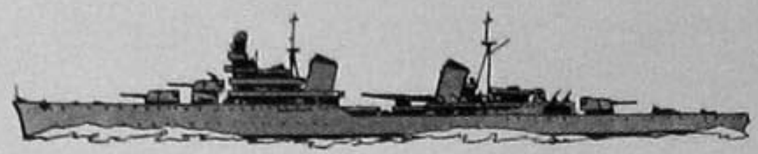
ZHELESNYAKOV *
(Four twin AA. at break of forecastle. Three twin AA. at after control)



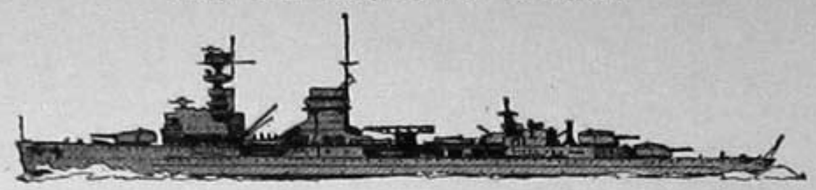
STALINGRAD. *



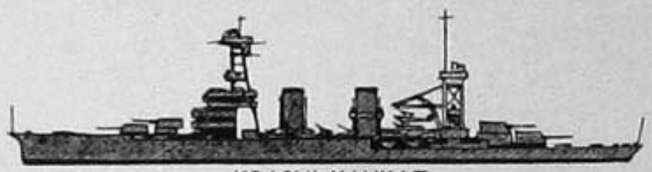
KIROV *Class*, 1st group (now no catapult)



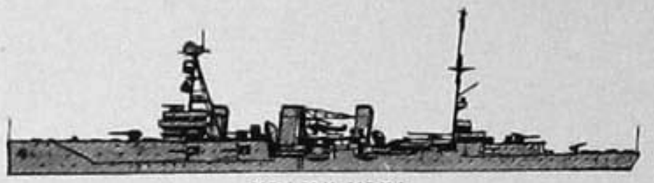
KIROV *Class*, 2nd group (now no catapult)



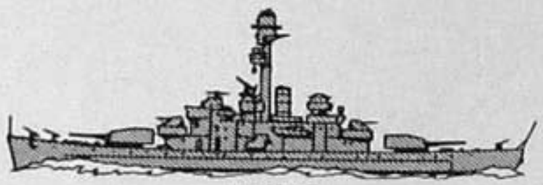
ADMIRAL MAKAROV (now no catapult)



KRASNI KAVKAZ.



KRASNI KRIM.
(Foremast should be taller.)

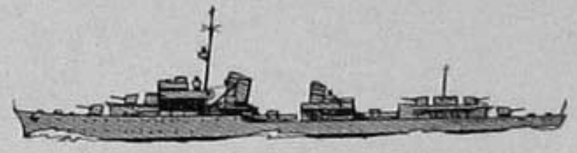


VIBORG.

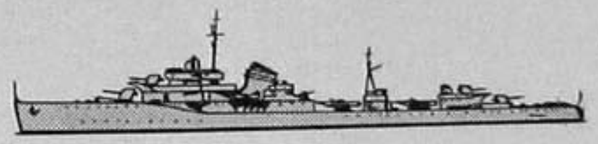
STALIN.

Ex-HARUTSUKI.

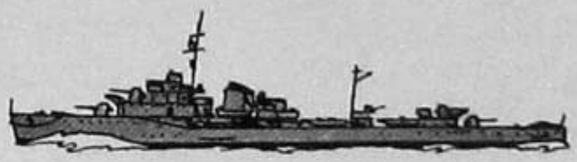
PROVORNI.



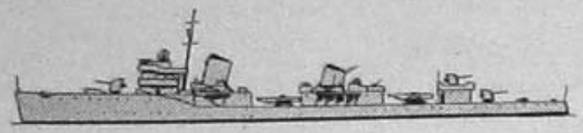
PROCHNI.



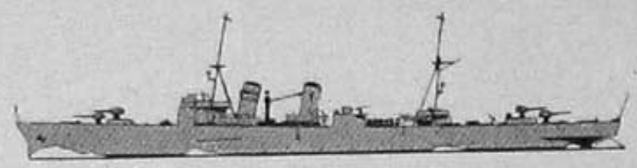
GROMKI *Class*.



BEZUPRECHNI *Type*.

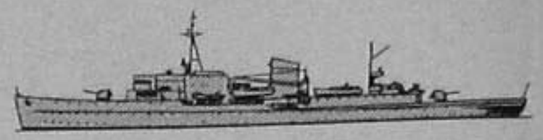


OPITNI.



MARTY.

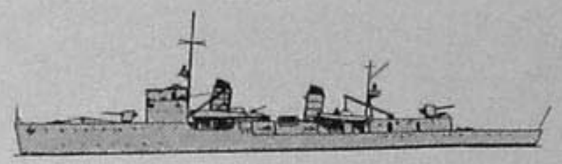
KIROV *Class.*



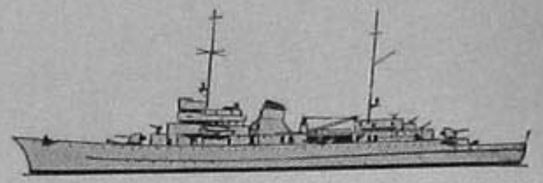
Ex-ADOLF LUDERITZ.

Ex-ERICH STEINBRINCK, *ex*-FRIEDRICH IHN.

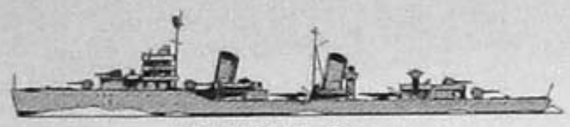
Ex-FORTUNALE *Class.*



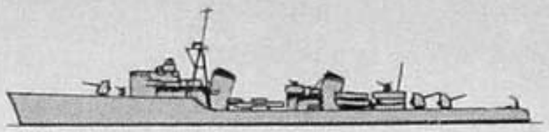
Ex-F 7.



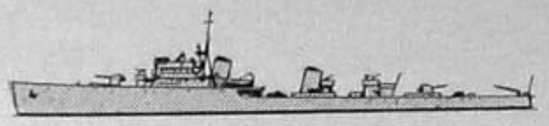
ANGARA.



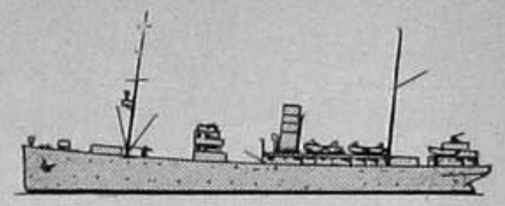
LENINGRAD *Class.*



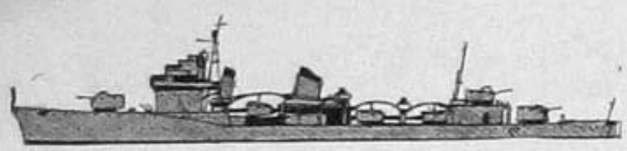
YASTREB (*Bird*) *Class.*



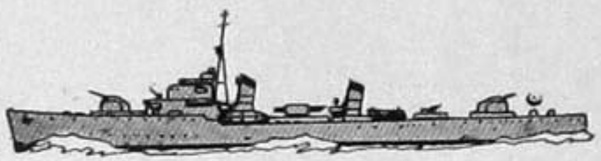
VASILI GROMOV.



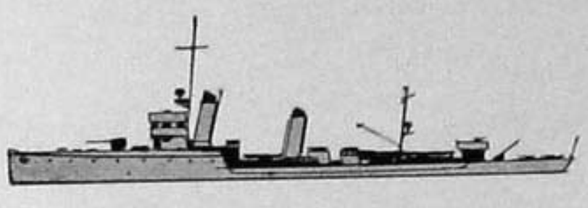
SMOLNY. *



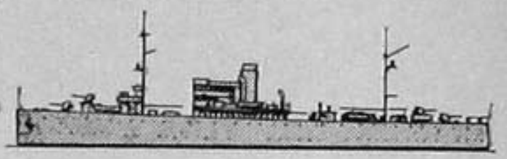
Ex-HIBIKI.



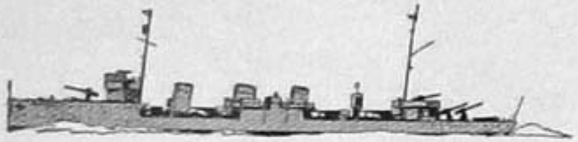
Ex-HATSUZAKURA.



PORASHAYUSHTCHI

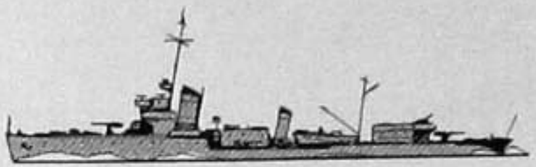


IRTYSH.

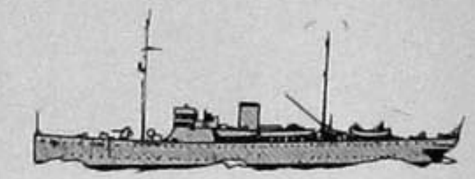


NEZAMOSHNIK Class.

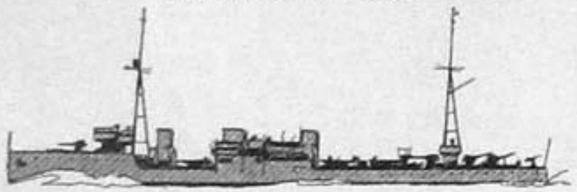
Ex-IKINO.



PRONZITELNY

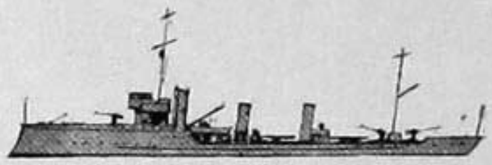


Ex-METEOR.



URITSKI *Class.*

PODVIZNOI, PORYVISTI



MARKIN *Class.*

KRASNOYE ZNAMBA.*

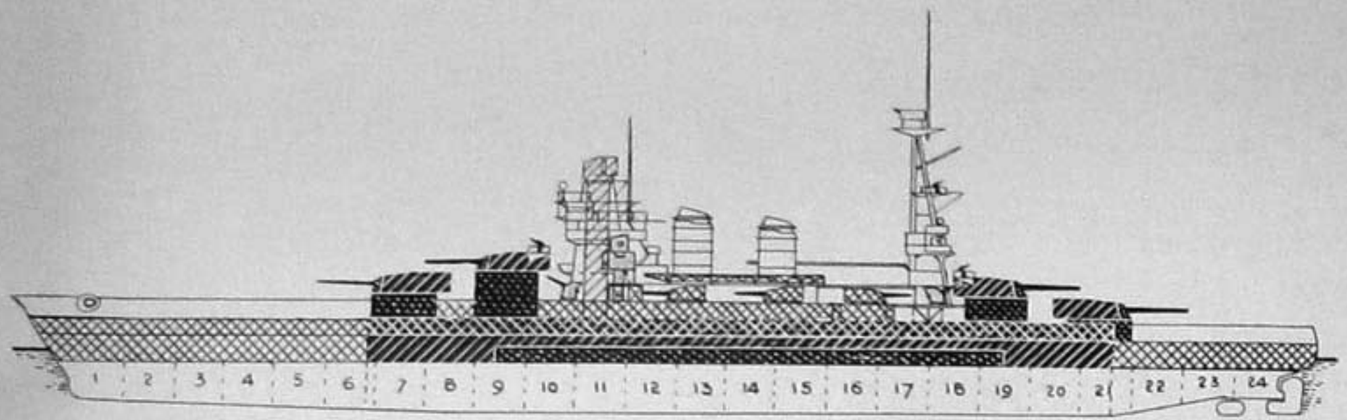
1835

Battleship.

NOVOROSSIISK (ex-Z11, ex-*Giulio Cesare*)

Builders:	Ansaldo
Laid down:	23 June 1910
Launched:	15 Oct. 1911
Completed:	29 Nov. 1913

Displacement:	23,622 tons *standard* (29,032 tons *full load*)
Dimensions:	Length: 597 (w.l.), 611½ (o.a.) feet. Beam: 92 feet. Draught: 30 feet (mean)
Guns:	10—12 inch, 52 cal., 12—4·7 inch, 8—3·9 inch AA., 4—37 mm. AA., 9 M.G.
Armour:	9¾"–8" belt (amidships), 5" belt (ends), 9¾" barbettes, 11" turrets to these, 11" C.T. (fore)
Machinery:	Belluzzo geared turbines. 2 shafts. S.H.P.: 75,000 = 27 kts. (now about 23 kts.)
Boilers:	8, of 3-drum type (working pressure reported to be 500 lb. per sq. inch)
Oil fuel:	2,506 tons
Radius:	4,500 miles at 10 kts.; 1,700 miles at 24 kts
Complement:	1,198



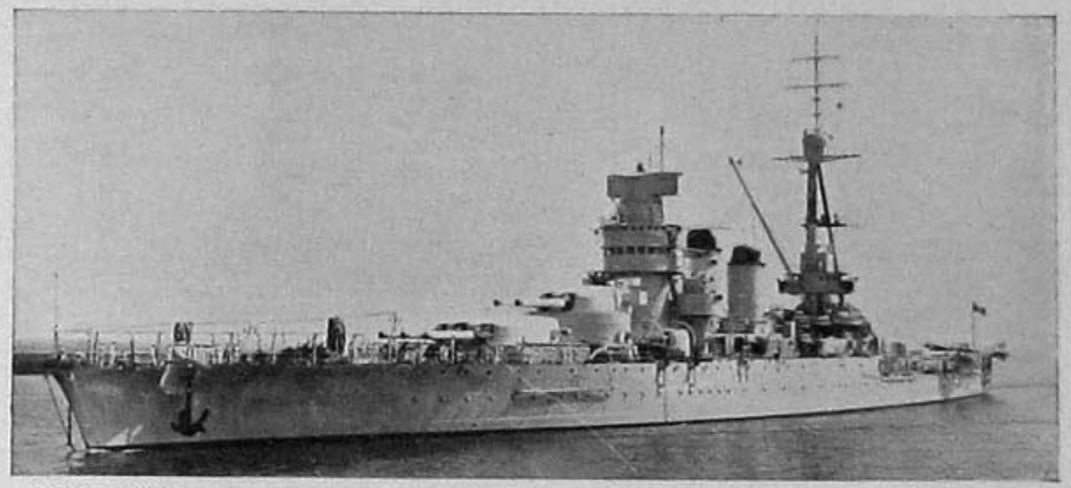
General Notes.—This ship was assigned to the Soviet Navy under the Italian Peace Treaty. Delivered to Russia 3 Feb. 1949. Recommissioned after having been rearmed with Russian guns. In Black Sea.

Gunnery Note—Italian 12·6-inch guns, 43·8 calibres in length first mounted in this ship were replaced by Russian 12-inch, 52 cal. guns.

Armour Notes.—Thicknesses of armour given above are those of original design. Protection was subsequently improved over magazines, propelling machinery and boiler rooms.

Reconstruction Note.—Rebuilt by Cant. Nav. del Tirreno 1933–37 at a cost of Lir. 150,000,000.

NOVOROSSIISK. *Added 1949.*

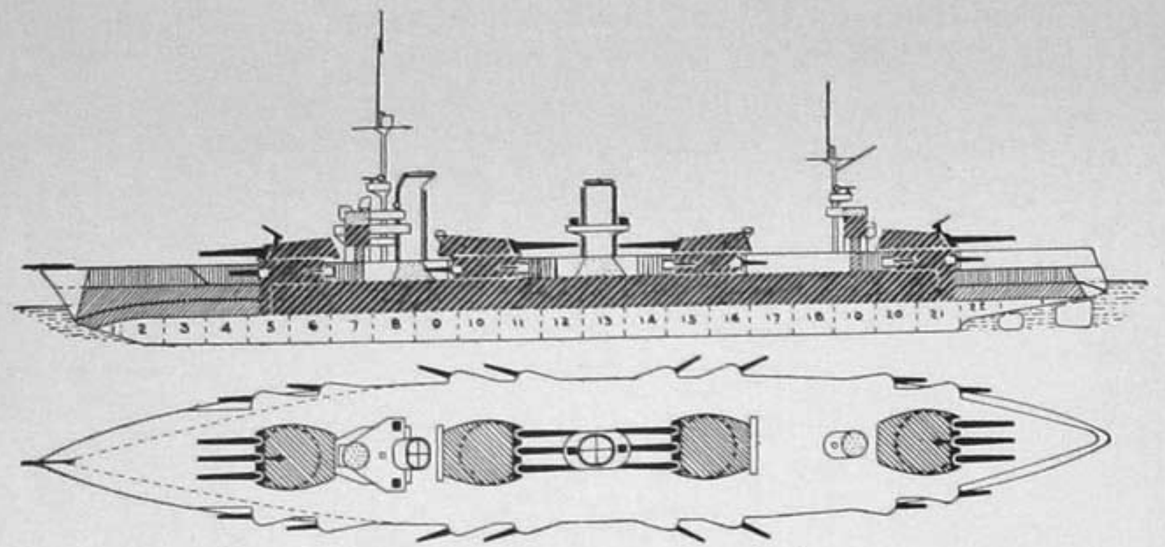


NOVOROSSIISK. *1938, Grand Studio.*

Battleships—*continued.*

OKTYABRSKAYA REVOLUTSIA (ex-*Gangut*) SEVASTOPOL (*ex-Parizhskaya Kommuna, ex-Sevastopol*)

Displacement :	23,606 and 23,256 tons *standard*, respectively (over 26,000 tons *full load*)
Dimensions :	Length : 590½ (*w.l.*), 619 (*o.a.*) feet. Beam : 87 feet. Draught : 27½ feet (*mean*)
Guns :	
(*Oktyabrskaya Revolutsia*)) :	12—12 inch, 52 cal., 12—4·7 inch, 50 cal., 8—3 inch AA., 12—37 mm. AA.
(*Sevastopol*) :	12—12 inch, 52 cal., 16—4·7 inch, 50 cal., 8—3 inch AA., 16—37 mm. AA.
Tubes :	4—18 inch, *submerged* (*Sevastopol*)
Armour (Krupp) :	8½" belt (amidships), 5"-2" belt (ends), 3"-4" internal belt (see *Notes*), 3" deck, 12"-10" turrets, 8" turret bases, 6" battery, 10" C.T.
Machinery:	Parsons turbines, direct drive. 4 shafts. S.H.P. : 50,000 = 23 kts. (now less, see *Notes*)
Boilers :	25 Yarrow (22 of 3-drum type in *Sevastopol*, installed 1933)
Coal :	1,000 tons *normal*, 1,700 tons *max.*, + 1,170 tons oil
Radius :	4,000 miles at 16 kts. 900 miles at 23 kts.
Complement :	1,087 (peace), 1,275 (war)



General Notes.—The late Gen. Vittorio Cuniberti prepared the original designs for this type. The Ministry of Marine afterwards altered the plans to include Russian ideas of armouring, ice-breaking bows and other special features. Further, to obtain a higher speed, hull design was relatively lighter than in contemporary battleships of other fleets. *Sevastopol* refitted and reboilered in 1936-39. *Oktyabrskaya Revolutsia* refitted 1931-34. *Sevastopol* renamed again in 1942. Third ship *Petropavlovsk* (ex-*Marat*), was badly damaged forward by enemy air attack in 1941 at Kronstadt, where she still remains in commission but without forecastle. Fourth ship, *Poltava*, scrapped 1923. Originally named after famous battles and victories of Russian armed forces.

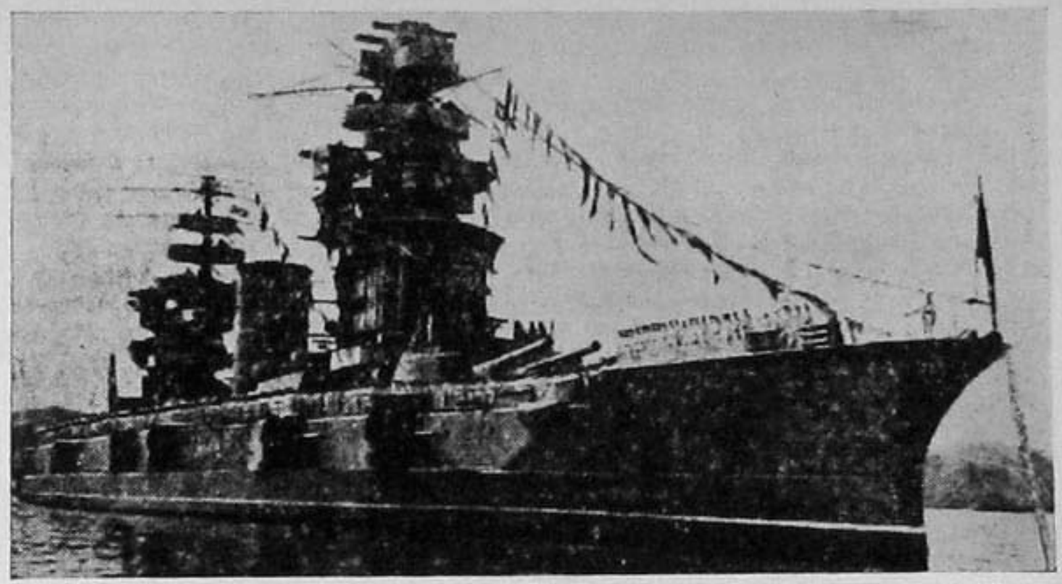
Gunnery Notes.—The port plate above each gun is in the form of a hinged flap, allowing each 12-inch gun to elevate to 30–40 degrees *max.* Arcs of fire: End triple 12-inch barbettes, 310 degrees; central barbettes, 130 degrees *each beam*; aft group of 4—4·7 inch, 90 degrees; other 4·7 inch, 85 degrees. Anti-aircraft armament extended in recent years. Now have several twin and quadruple 37 mm. AA. mountings on the turrets and bridges.

Armour Notes.—Belt is about 15 feet wide, 5 feet of it below water, uniform thickness. There is a *secondary* 3"–4" internal belt 11 feet inboard above protective deck, extending between the end barbettes. The space between main belt and internal belts is divided up into w.t. compartments.

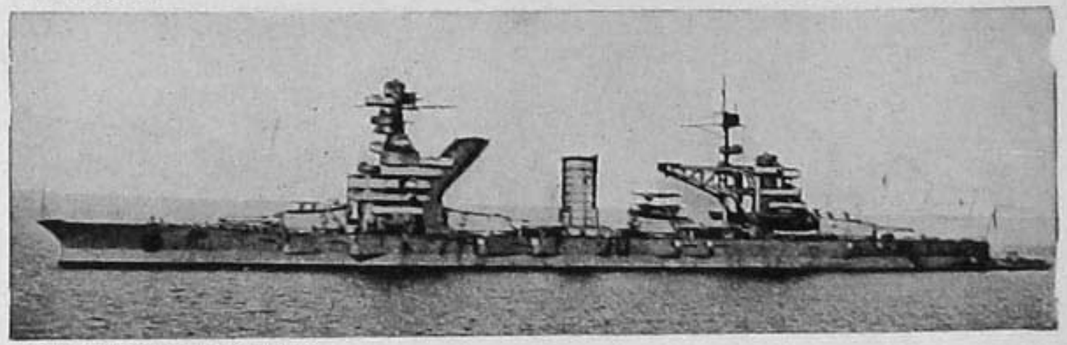
Engineering Notes.—Developed 57,000 S.H.P. in full first power trials, equal to a speed of 23·4 kts. Best recent speeds : *Oktyabrskaya Revolutsia*, 16 kts. *Sevastopol*, 20 kts.

Name	*Builder*	*Machinery*	*Laid down*	*Launched*	*Completed*
Oktyabrskaya Revolutsia	Galernii	Franco-Rus. Works	June 1909	7 Oct. 1911	Jan. 1914
Sevastopol	Baltic Works	Baltic Works	June 1909	29 June 1911	Jan. 1915

SEVASTOPOL. *Added 1953, courtesy M. J. Meister*



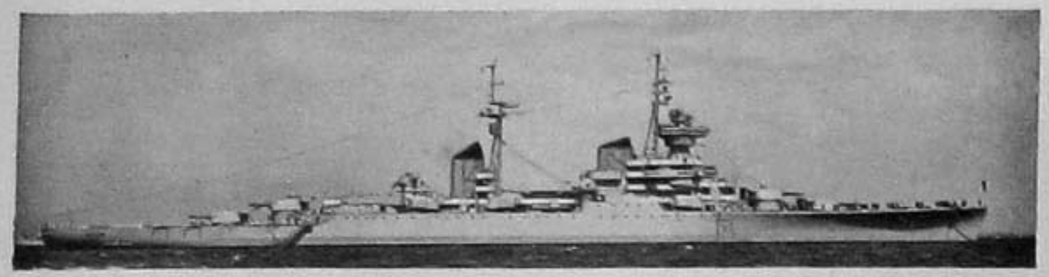
SEVASTOPOL. *Added 1953, courtesy M. J. Meister.*



OKTYABRSKAYA REVOLUTSIA.

Cruisers.

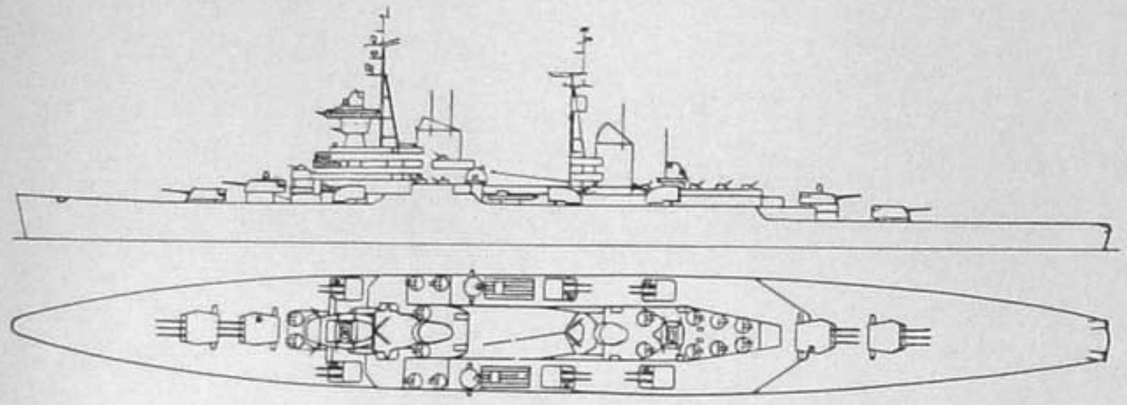
8 "Sverdlov" Class.



SVERDLOV 1953 photo, *Wright & Logan.*

SVERDLOV

Displacement :	12,800 tons
Dimensions :	Length: 656 (*pp.*), 680 (*o.a.*) feet. Beam: 69 feet. Draught: 16 (*mean*), 23 (*max.*) feet
Guns :	12—6 inch in four triple turrets; 12—3·9 inch in six twin mountings; 32—37 mm. AA.
Machinery :	S.H.P. : 130,000 = 35 kts.
Complement :	1,050

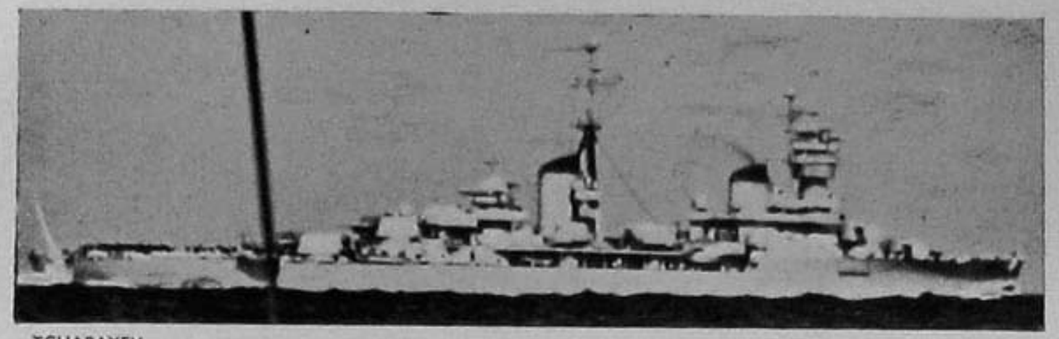


General Notes.—Sverdlov is in seagoing commission. Fitted for minelaying. Six to eight sister ships reported to be under construction or being completed (Baltic) and one building (White Sea).

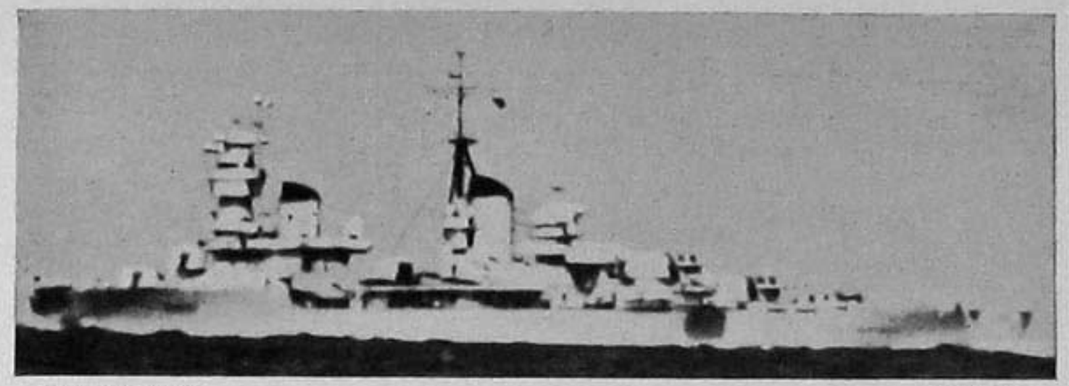
Appearance Notes.—Resemble "Tchapayev" class in several respects, but forecastle deck breaks at quarter deck instead of abreast the forefunnel.

Cruisers—*continued.*

3 "Tchapayev" Class.



TCHAPAYEV. *Added* 1953.



ZHELESNYAKOV. *Added* 1952.

TCHAPAYEV **TCHKALOV** **ZHELESNYAKOV**

Displacement :	10,000 tons (13,000 tons *full load*)
Dimensions :	Length : 656 feet. Beam : 69 feet. Draught : 21 feet
Guns :	12—6 inch in four triple turrets. 8—4 inch AA., 28—37 mm. AA. (twin mounts
Machinery :	Geared turbines. S.H.P. : 113,000 = 35 kts.
Complement :	834

General Notes.—Tchapayev, Tchkalov, laid down before the war, and *Zhelesnyakov* launched approximately 1942-44. All work on these ships was stopped during the war, but resumed in 1946-47. *Tchapayev, Tchkalov,* and *Zhelesnyakov* are now in commission. Catapults removed from all ships of this type. *Tchkalov* in Baltic, other two transferred to White Sea, July, 1951, for Northern Fleet.

Gunnery Notes.—Turret guns are in separate sleeves allowing independant elevation. Elevation at least 50 degrees.

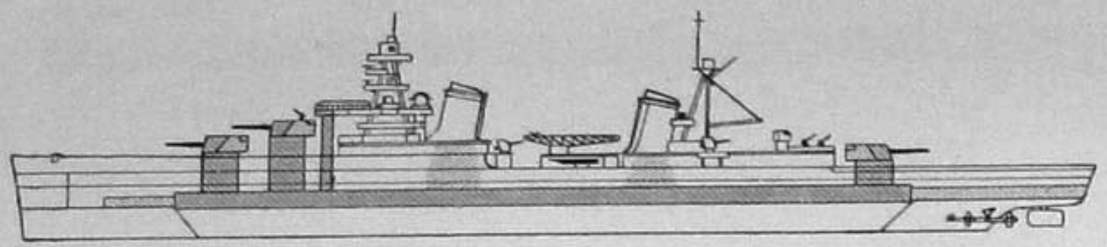
Appearance Notes.—Tchapayev, Tchkalov and *Zhelesnyakov* have heavy director on control tower, pole foremast, tripod mainmast forward of after funnel and raked square stern. Vertical funnels. All this class have higher freeboard and longer funnels than ships of the "Kirov" class.

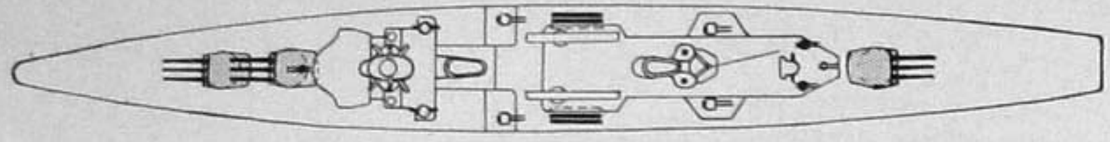
7 " Kirov " and " Improved Kirov " Groups.

1st Group
KIROV **MOLOTOV** **VOROSHILOV**

2nd Group
FRUNSE **KAGANOVITCH** **KALININ** **MAKSIM GORKI**

Displacement :	8,800 tons (9,500 tons *full load*)
Dimensions :	Length : 613½ (pp.), 626½ (o.a.) feet. Beam : 59 feet. Draught : 17 (*mean*), 20 (*max.*) feet
Guns :	9—7·1 inch, 8—4 inch AA., 10—37 mm. AA., 6—13 mm. AA. M.G.
Tubes :	6—21 inch (in triple deck mountings)
Mines :	60
Armour :	2—3" side, 2" deck, 3—4" gunhouses, 4 C.T.
Machinery :	Geared turbines with Diesels for cruising speeds. 4 shafts. S.H.P. : 110,000 = 35 kts. (actually less)
Boilers :	6 Yarrow or Normand
Oil fuel :	1,280 tons
Complement :	734





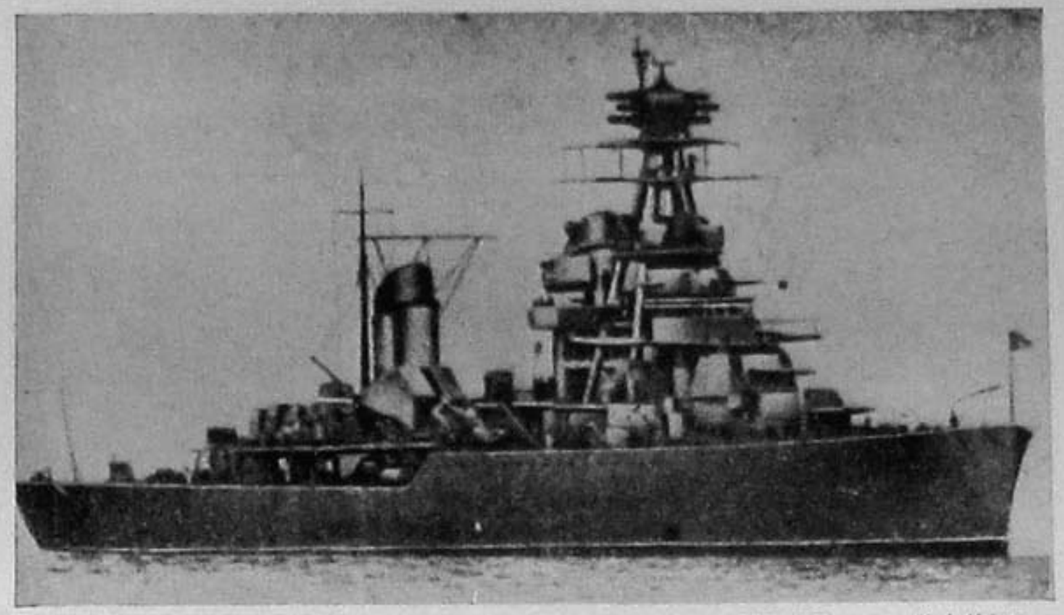
Note to Plan.—Now no catapult, which has been replaced by additional anti-aircraft weapons.

General Notes.—Design and technical direction of construction said to have been furnished by Ansaldo. Two more ships, named *Orjonikidze* and *Kaganovich*, under construction at Nikolaiev, were wrecked by high explosives before the enemy occupied that port in August, 1941. At least one cruiser of this type (*Maksim Gorki*) was badly damaged in the Baltic in August, 1941. *Frunse*, towed to Poti and completed, commissioned in 1950. In Black Sea. *Kaganovitch* and *Kalinin* are at Vladivostok.

Gunnery Notes.—Triple guns are mounted in one sleeve and are thus incapable of separate elevation. Maximum observed elevation approximately 40 degrees.

Appearance Notes.—First Group : *Kirov, Molotov, Voroshilov* have very long forecastle, heavy tripod mast stepped abaft forebridge light tripod stepped abaft second funnel, three turrets, very large funnels. Second Group : Remaining vessels have high director tower on forebridge, light tripod foremast stepped abaft bridges, heavy tripod, mainmast stepped abaft second funnel, three turrets, smaller funnels, and generally lighter in appearance than ships of " Kirov " group. *Frunse* reported to have tripod mainmast forward of after funnel.

Name	*Builder*	*Machinery*	*Laid down*	*Launched*	*Completed*
Kaganovitch	Komsomolsk Shipyards			1945	
Kalinin				1945	
Frunse			?	?	1950
Kirov	Putilov D.Y.	Tosi, Taranto	1934	1 Dec. 1936	26 Sept. 1938
Maksim Gorki			1935	Dec. 1937	1940
Molotov	Marti Yard, Nikolaiev		1935	23 Feb. 1939	1944
Voroshilov			1936	1940	1945



KIROV. *Added 1953, courtesy M. J. Meister*

MAKSIM GORKI. 1949.

KIROV. 1949

Light Cruiser.

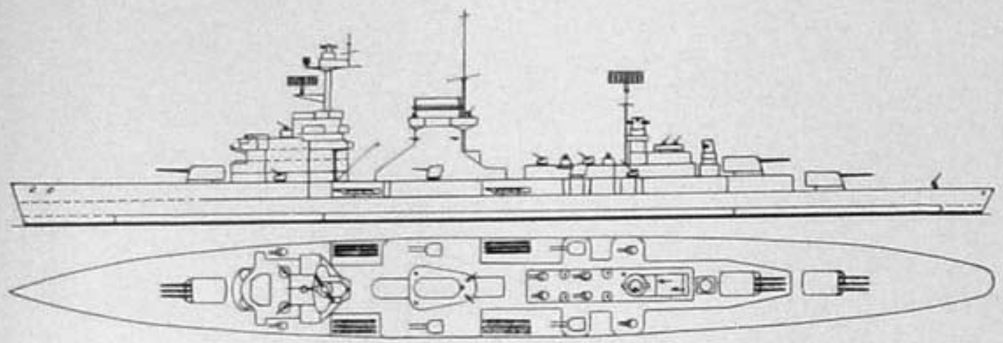
1 Ex-German Type.

1944.

ADMIRAL MAKAROV (ex-*Nürnberg*)

Builders:	Deutche Werke, Kiel
Laid down:	Early 1934
Launched:	8 Dec. 1934
Completed:	Nov. 1935

Displacement:	6,700 tons designed, 7,600 tons *standard* (9,110 tons *full load*)
Dimensions:	Length: 557½ (*p.p.*), 603 (*o.a.*) feet. Beam: 54 feet. Draught: 14½ (*mean*), 18½ (*max*). feet
Guns:	9—5·9 inch, 50 cal., 8—3·5 inch AA., 4—40 mm. AA., 4—37 mm. AA., 29—20 mm. AA.
Tubes:	12—21 inch, *above water* (tripled)
Armour:	3"–4" vert. side, 2" gunhouses, 3" C.T.
Machinery:	Geared turbines. 3 shafts. S.H.P.: 60,000 = 31·5 kts. + Diesels of 12,000 B.H.P. for cruising
Boilers:	6 Marine type
Complement:	656

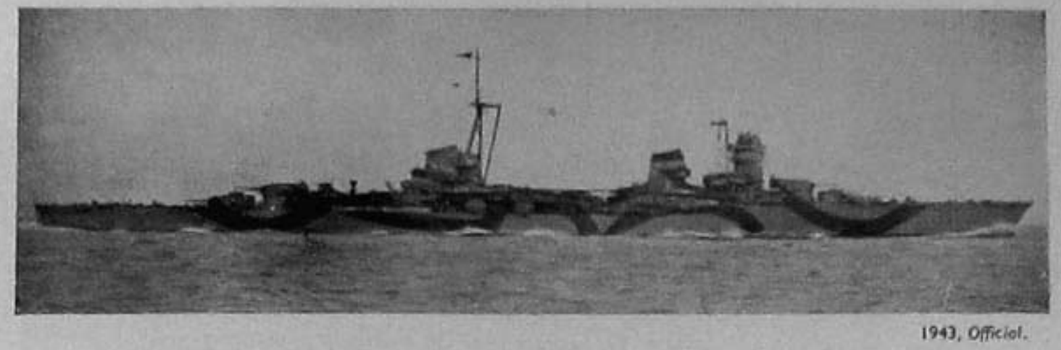


General Notes.—Former German light cruiser. First commissioned at beginning of Nov. 1935. Taken over by Soviet Navy in 1946. Now rearmed. Aircraft formerly carried is believed to have been removed.

Historical Notes.—Named after the admiral commanding the Russian Far Eastern Fleet who lost his life when his flagship was mined outside Port Arthur in 1904.

Light Cruiser.

1 Ex-Italian Type.

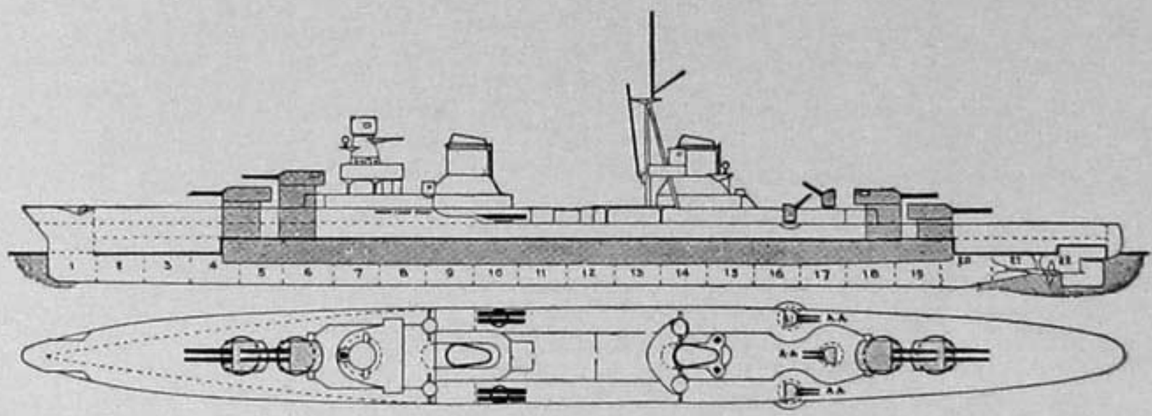


1943, *Official.*

STALINGRAD (ex-Z 15, ex-*Emanuele Filiberto Duca D'Aosta*

Builders:	Odero-Terni-Orlando
Laid down:	Jan. 1932
Launched:	22 Apr. 1934
Completed:	July 1935

Displacement:	7,283 tons as designed; actua lfigure is 7,527 tons *standard* (10,541 tons *full load*)
Dimensions:	Length: 592 (*w.l.*), 610½ (*o.a.*) feet. Beam: 57½ feet. Draught: 16½ feet (*mean*)
Guns:	8—6 inch, 53 cal., 6—3·9 inch, 47 cal. AA., 8—37 mm. AA., 12—20 mm. AA., 2 M.G., 2 D.C.T.
Tubes:	6—21 inch (tripled)
Armour:	1½"–4" vert. side, 1½" deck, 4" turrets, 3" barbettes, 4" C.T.
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 110,000 = 36·5 kts.
Boilers:	6, of 3-drum type
Oil fuel:	1,731 tons
Complement:	551



Note to Plan.—Torpedo tubes are tripled, not paired, as shown.

General Notes.—Former Italian light cruiser. Equipped for minelaying. This ship was assigned to the Soviet Navy under the Italian Peace Treaty. Delivered to Russia 27 Feb. 1949. Recommissioned in Black Sea.

Cruisers.

KRASNI KAVKAZ

Added 1953, courtesy M. J. Meister.

KRASNI KAVKAZ (ex-*Admiral Lazarev*)

Builders :	Nikolaiev
Laid down :	1914
Launched :	June 1916
Completed :	1932
Displacement :	8,030 tons
Dimensions :	Length : 530 (pp.), 545 (*o.a.*) feet. Beam : 50½ feet. Draught : 20½ feet
Guns :	4—7·1 inch, 12—4 inch AA., 2—3 inch AA., 4—45 mm. AA., 8—37 mm. AA., 14 M.G.
Tubes :	6—21 inch (tripled)
Mines :	100
Aircraft :	1, with catapult
Armour :	2"—3" side, 1" deck, 3" gunhouses, 3" C.T.
Machinery :	Brown-Boveri turbines. 2 shafts. H.P. : 55,000 = 25 kts.
Boilers :	13 Yarrow
Fuel :	Coal : 540 tons. Oil : 690 tons
Radius :	3,700 miles at 14 kts.
Complement :	850

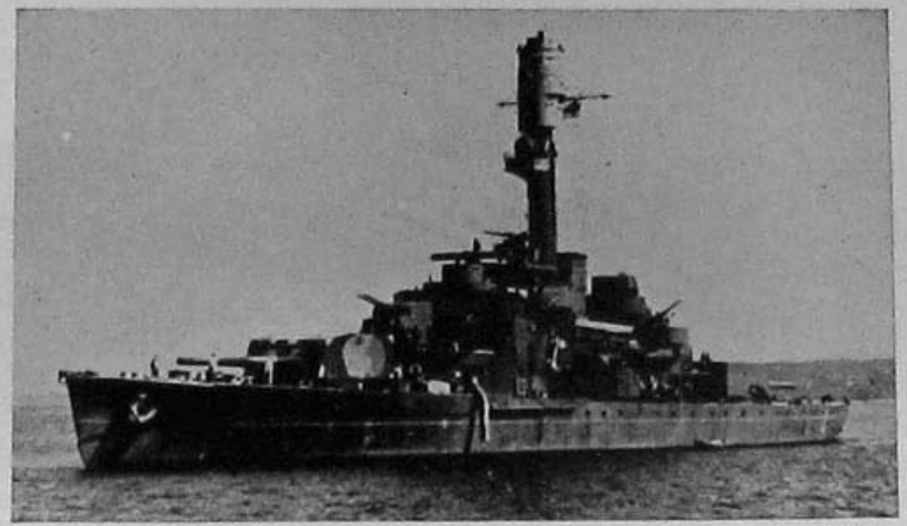
General Notes.—The construction of this ship was held up for many years. She was reported to be fitted for minelaying.

KRASNI KRIM (*ex-Profintern, ex-Svietlana*)

Built:	Reval
Laid down:	1913
Launched:	June 1915
Completed:	Dec. 1924
Displacement:	6,934 tons (8,500 tons *full load*)
Dimensions:	507½ feet. Beam: 50½ feet. Draught: 18½ feet
Guns:	11—5·1 inch, 55 cal., 4—4 inch AA., 4—45 mm. AA., 10—37 mm. AA.
Tubes:	6—21 inch (in triple mounts)
Mines:	100
Armour:	2" side at w.l. amidships, 1" deck, 3" gun shields, 3" C.T.
Machinery:	A.E.G. turbines. 2 shafts. S.H.P.: 50,000 = 29·5 kts. (actual best speed is under 25 kts.)
Boilers:	13 Yarrow
Fuel:	Coal: 540 tons. Oil: 690 tons
Radius:	470 miles at full speed, 3,700 at 14 kts.
Complement:	684

General Notes.—Built under the 1912 Naval Programme. Construction was held up for many years. Germans claimed to have sunk either this ship or *Krasni Kavkaz*, but confirmation of the report is lacking. Old cruiser *Komintern*, 6,338 tons, still exists as a stationary school ship.

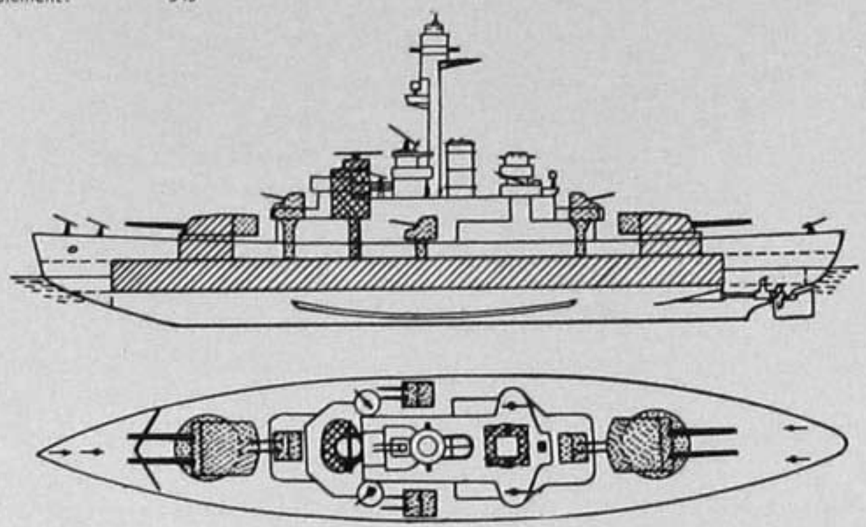
Coast Defence Ship.



1944.

VIBORG (ex-*Väinämöinen*)

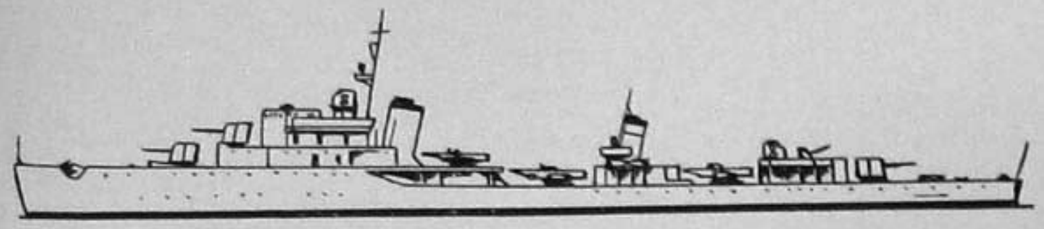
Builders:	A.-B. Crichton-Vulkan, Turkü (Åbo)
Laid down:	Aug. 1929
Launched:	28 Dec. 1930
Completed:	1932
Displacement:	3,900 tons
Dimensions:	Length: 305 feet. Beam: 55½ feet. Draught: 14½ feet
Guns (Bofors):	4—10 inch, 46 cal., 8—4·1 inch AA., 4—40 mm. AA., 6—20 mm. AA. (Madsen)
Armour:	4"–4½" turrets, ½"–¾" deck, 2½" side, 5" C.T.
Machinery:	Germania Diesels with electric drive, Leonard system, by Brown, Boveri & Co 2 shafts. B.H.P.: 5,000 = 15·5 kts.
Oil fuel:	93 tons
Complement:	343



General Notes.—Former Finnish coast defence ship. Sold to Russia in Summer, 1947. Stationed at Porkalla.
Gunnery Notes.—Maximum elevation of 10-inch guns is 50 degrees.

Destroyers.

6 " Stalin " Class.



STALIN and others

Displacement :	*circa* 2,500 tons
Dimensions :	Length: 426½ (*o.a.*) feet
Guns :	6—5·1 inch, 6—37 mm. AA., 6—20 mm. AA.
Tubes :	4—21 inch
Speed :	38 kts.

18 " Skori " and " Ognevoi " Classes.

OGNEVOI. 1953, *courtesy M. J. Meister.*

SKORI and 8 others building or completing
OBRAZTSOVI **OPASSNI** **OSORNOI** **OTLICHNI**
OGNEVOI **OSMOTRITELNI** **OTCHETLIVI** **OTVASHNI**
and another

Displacement :	1,800 to 2,000 tons (2,650 tons *full load*)
Dimensions :	386½ × 37¾ × 14½ feet
Guns :	4—5·1 inch, 55 cal. (twin mounts), 2—3 inch AA., 6 to 10—37 mm. AA., 4 to 6—20 mm. AA.
Tubes :	6 to 8—21 inch
Machinery :	S.H.P. : 60,000 to 70,000 = 36 to 38 kts.
Oil fuel :	370 tons
Complement :	212

Notes.—Completing, on trials, or in service. 12 in Baltic and White sea. 6 in Black Sea. The " Skori " class have same armament as " Ognevoi " class, but 7-37 mm. AA. " O " class are somewhat smaller. " Osmotritelni " means " Cautious."

Destroyers—*continued.*

1 Large Ex-Japanese Type.

1948.

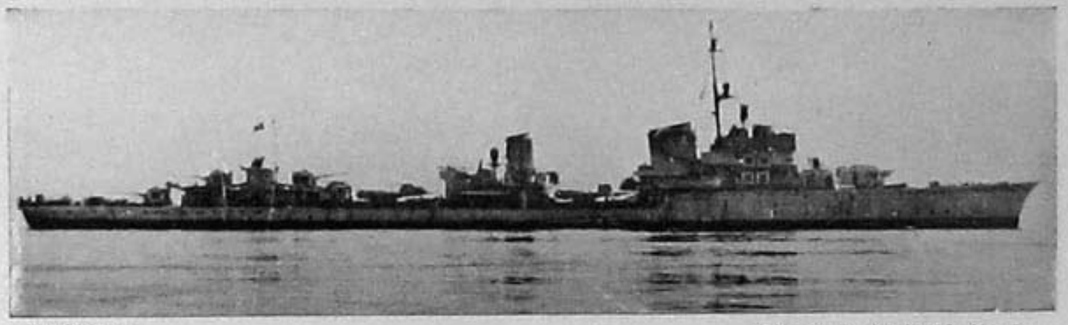
Ex-HARUTSUKI

Launched: 1942

Displacement	2,701 tons *standard* (3,495 tons *full load*)
Dimensions :	435 (*w.l.*), 440½ (*o.a.*) × 38 × 13½ feet
Guns :	8—4 inch AA., 15—25 mm. AA., (handed over disarmed)
Tubes :	4—24 inch
Machinery :	Geared turbines. 2 shafts. S.H.P. : 52,000 = 33 kts.
Boilers :	3 Kampon
Complement :	290

Notes.—Formerly Japanese vessel of large destroyer or light cruiser type. Delivered to U.S.S.R. at Nakhodoka, Aug. 28, 1947.

1 Large Ex-German Type.



PROVORNI. 1944, *courtesy M. Henri Le Masson.*

PROVORNI (*ex-Z33*)

Builders :	Deschimag, Bremen
Launched :	1942
Displacement :	2,603 tons (3,597 tons *full load*)
Dimensions :	393½ (*p.p.*), 420 (*o.a.*) × 39½ × 9½ (*light*), 13 (*max.*) feet
Guns :	5—5·9 inch, 4—37 m.m. AA., 10—20 mm. AA.
Tubes :	8—21 inch
Mines :	60
Machinery :	Geared turbines. 2 shafts. S.H.P. : 70,000 = 35 kts.
Boilers :	6 Wagner
Oil fuel :	620 tons
Complement :	320

Notes.—Formerly German. Has completed refit with modified armament and is commissioned for service.

1 Light Ex-German Type.

PRIMYERNI. *Added* 1948.

PRIMYERNI (*ex-T 33*)

Builders: Schichau, Elbing
Launched: 1942

Displacement:	1,300 tons (1,754 tons *full load*)
Dimensions:	310 (*p.p.*), 319 (*w.l.*), 334½ (*o.a.*) × 32½ × 9½ feet
Guns:	4—4·1 inch, 4—37 mm. AA., 6—20 mm. AA., 2 D.C.T.
Tubes:	6—21 inch
Mines:	60
Machinery:	Geared turbines, 2 shafts, S.H.P.: 32,000 = 32 kts.
Boilers:	4 Wagner
Oil fuel:	360 tons
Complement:	190

Notes.—Former German so-called torpedo boat but of destroyer dimensions. Name "*Primyerni*" means "Representative."

2 "V" Class.

VNIMATELNI **VNUSHITELNI**

Displacement:	2,400 tons
Dimensions:	390½ × 38½ × 15½ feet
Guns:	4—5·1 inch, cal. 55 cal., 2—3 inch AA., 8—13 mm. AA.
Tubes:	6—21 inch (tripled)
Mines:	60
Machinery:	S.H.P.: 54,000 = 38 kts.
Complement:	180

Notes.—*Vnimatelni* reported to have been built at Leningrad. *Vnushitelni* Black Sea. Launched 1939. Fitted for minelaying.

11 "R" (later "Gordi") Class.

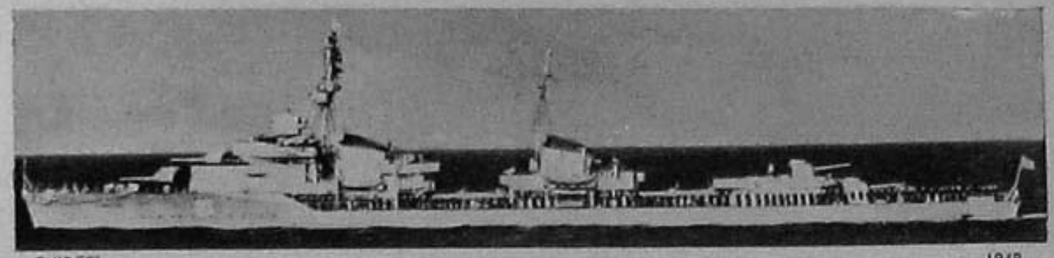
RASTOROPNI **RAZYARYONNI** **RYANI** **RYESKI**
RAZIASHTCHI **RYEDKI** **RYESHITELNI** **RYESVI**
RAZUMNI **REKORDNI** **RYETIVI**

Displacement:	2,500 tons
Dimensions:	377 × 36½ × 14½ feet
Guns:	4—5·1 inch, 55 cal., 2—3 inch, 3—37 mm. AA., 4—13 mm. AA.
Tubes:	6—21 inch (tripled)
Speed:	39 kts.

General Notes.—*First reported these vessels were units of "G" class, but "R" boats are of later and larger type than "Gordi" class. "Ryedki" means "Rare."*

Appearance Note.—These vessels are very similar in appearance to "S" class destroyers, with one funnel.

11 "S" (Improved "Gordi") Class.



SVIREPI. 1948.

VICE ADMIRAL DROZD (ex-*Stoiki*) **SLAVNI** **STRASHNI** **STROINI**
SILNI **STOROSHEVOI** **STROGI** **SVIREPI**
All in Baltic

SOOBRAZITELNI **SPOSSOBNI** **SVOBODNI**
In Black Sea

Displacement:	1,686 tons (2,150 tons *full load*)
Dimensions:	367 (*p.p.*), 371 (*o.a.*) × 33 × 14 feet
Guns:	4—5·1 inch, 2—3 inch, 50 cal. AA., 4—37 mm. AA., 4—20 mm. AA., 2 M.G.
Tubes:	6—21 inch
Mines:	Stowage for 80 mines reported
Machinery:	Geared turbines. 2 shafts. S.H.P.: 48,000 = 36 kts.
Boilers:	3-drum type
Oil fuel:	500 tons
Complement:	240

Notes.—All launched 1939-45. The armament of *Storoshevoi* has been altered, with one twin turret forward, and she differs in appearance from other vessels of class. War losses: *Smetliri, Stramitelni, Sokrushitelni, Serditi, Snishlyoni, Smyeli, Steregushtchi* and *Skori.*

8 "G" ("Gordi") Class.

Added 1940.

BEZUPRECHNI **BOIKI** **GREMIASHCHI** **GROZNI**
BODRI **GROMKI** **GROZYASHTCHI**

Displacement:	1,657 tons (2,150 tons *full load*)
Dimensions:	357½ (*pp.*), 377 (*o.a.*) × 33½ × 13 feet
Guns:	4—5·1 inch, 2—3 inch, 50 cal. AA., 4—37 mm. AA., 8 D.C.T.
Tubes:	6—21 inch (tripled)
Mines:	100
Machinery:	Geared turbines of Tosi design. 2 shafts. S.H.P.: 50,000 = 36 kts.
Boilers:	3-drum type
Oil fuel:	500 tons
Complement:	240

Notes.—All launched 1936-41. First three "Gr" boats in White Sea, fourth in Baltic. "B" boats reported to be all in Black Sea. Fitted for minelaying. These destroyers are said to be better sea boats than *Leningrad* class, having less top weight. They are understood to be of Odero-Terni-Orlando design. "B" group are of somewhat larger design but with smaller funnels than "G" boats. 55 of this and succeeding classes said by Russians to have been built up to 1948. War losses: *Gnievni, Gordi, Grosovoi, Gromyashtchi, Bezposhchadni, Bistri, Bezshumni, Bezstrashni, Bdityelni.*

179R

3 Ex-German Type.

1939, *Schafer.*

PROCHNI (ex-German *Karl Galster*, Z 20)

Builders:	Deschimag
Launched:	1938
Displacement :	2,411 tons (3,415 tons *full load*)
Dimensions :	384 (*p.p.*), 410 (*o.a.*) × 38⅔ × 9½ (*mean*), 12 (*max.*) feet
Guns :	5—5 inch, 6—37 mm. AA., 13—20 mm. AA.
Tubes:	8—21 inch
Mines:	70
Machinery:	Geared turbines. 2 shafts. S.H.P.: 67,000 = 37 kts.
Boilers:	6 Wagner

FRIEDRICH IHN.

Added 1940, Renard.

PYLKI (*ex-Erich Steinbrinck*, Z 15) Ex-**FRIEDRICH IHN**, Z 14

Displacement :	2,239 tons (3,165 tons *full load*)
Dimensions :	374 (*p.p.*), 381 (*w.l.*), 390½ (*o.a.*) × 37⅔ × 9½ (*mean*), 12½ (*max.*) feet
Guns :	5—5 inch, 4—37 mm. AA., 14—20 mm. AA.
Tubes:	8—21 inch
Machinery:	Geared turbines. 2 shafts. S.H.P.:70,000 = 36 kts.
Boilers:	6 Wagner
Oil fuel:	700 tons

Notes.—Both ex-German. Launched 1936 and 1935 respectively. Built by Blohm & Voss, Hamburg. After the war *Steinbrinck* had 14-37 mm. AA., guns.

Destroyers—*continued.*

2 Ex-Italian Type.

ARTIGLIERE.

1947, *Lieut. Aldo Fraccaroli.*

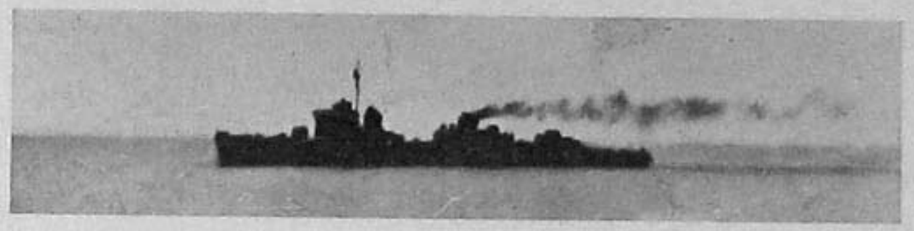
Ex-ARTIGLIERE (ex-Z 12, *ex-Camicia Nera*) Ex-**FUCILIERE** (*ex-Z 20*)

Displacement :	1,830 tons *standard* (2,749 tons *full load*)
Dimensions:	339 (*w.l.*), 350 (*o.a.*) × 38½ × 10¾ (*mean*) feet
Guns :	4—4·7 inch, 3—37 mm. AA., 8—20 mm., 1 M.G.
Tubes:	3—21 inch (tripled)
Machinery :	2 sets geared turbines. 2 shafts. S.H.P. : 48,000 = 38 kts. (designed), actual best speed 32 kts.
Boilers:	3, of 3-drum type
Oil fuel:	545 tons
Complement:	215

Notes.—Ceded to Russia under the Italian Peace Treaty. Delivered to Soviet Navy 21 Feb. 1949 and 17 Jan. 1950, respectively

Name	*Builders*	*Laid down*	*Launched*
Artigliere	Odero-Terni-Orlando	Jan. 1937	8 Aug. 1937
Fuciliere	Riuniti, Ancona	May 1937	31 July 1938

1 "Opitni" Class.



OPITNI (ex-*Serge Orjonikidze*)

Launched:	1936
Displacement:	1,570 tons *standard* (1,870 tons *full load*)
Dimensions:	360½ (*pp.*), 373½ (*o.a.*) × 33½ × 10½ feet
Guns:	3—5·1 inch, 55 cal., 4—45 mm., 3—37 mm. AA., 3 M.G.
Tubes:	8—21 inch (quadrupled)
Mines:	70
Machinery:	Geared turbines. 2 shafts. S.H.P.: 70,000 = 40 kts.
Oil fuel:	370 tons
Complement:	212

Notes.—Of quite different type from "S" class. Built as an experimental type with light hull and high speed. On trials, when above photo was taken, she reached 41·6 kts., but suffered greatly from vibration at high speed. No further ships of the type were therefore ordered. Baltic.

Destroyers—*continued.*

7 "Leningrad" Class.

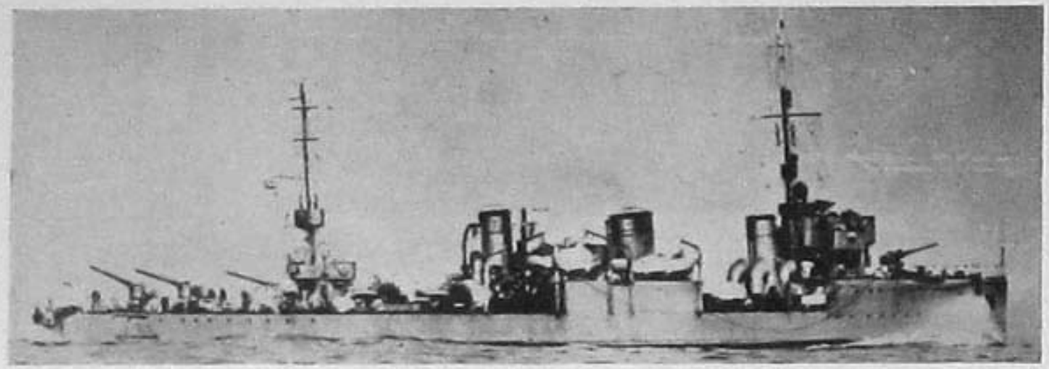
MINSK. 1948.

BAKU **LENINGRAD** **MINSK** **TBILISSI** **TOMSK** **TULA** **TVER**

Displacement:	2,225 tons *standard* (2,582 tons *full load*)
Dimensions:	400 (*pp.*), 418½ (*o.a.*) × 38½ × 13 feet
Guns:	4—5·1 inch, 55 cal., 2—3 inch, 50 cal. AA., 5—37 mm. AA., 4 D.C.T.
Tubes:	8—21 inch (quadrupled)
Machinery:	Geared turbines. 3 shafts. S.H.P.: 70,000 = 38 kts. (Trials of *Leningrad*, light, 39·3 kts.)
Boilers:	3, of 3-drum type
Oil fuel:	600 tons

General Notes.—Built 1933-41. *Leningrad* launched 1935. Fitted for minelaying. Rated as "Lideri" (flotilla leaders). These ships resemble contemporary French *Contretorpilleurs*, and construction of earlier units is understood to have been supervised by French technical experts. The 5·1 inch gun abaft the bridge has been removed. *Baku* in White Sea, *Leningrad* and *Minsk* in Baltic, "T" boats in Far East. Hulls of *Batum*, *Otchakov* and *Perekop* were lying at Batum at end of 1941, but material for their construction may have been diverted to the "Ognevoi" class. War losses: *Moskva*, *Harkov*.

5 "Uritski" Class.



STALIN. *Added 1953, courtesy M. J. Meister.*

KARL LIEBKNECHT (*ex-Kap.-Lt. Belli*) **STALIN** (*ex-Samson*) **URITSKI** (*ex-Zabiaka*)
KUIBYSHEV (*ex-Sgadnov, ex-Rykov, ex-Kap. Kern*) **VOIKOV** (*ex-Trotski, ex-Leit. Ilyin*)

Displacement:	1,150 to 1,417 tons (1,700 to 1,770 tons *full load*)
Dimensions:	314½ (*pp.*), 321½ (*o.a.*) × 30½ to 31 × 9½ to 12 feet
Guns:	4—4 inch, 2—3 inch AA., (*Voikov* only), 2—57 mm. AA., 2—37 mm. AA., 2—20 mm. AA.
Tubes:	9—17·7 inch
Machinery:	Turbines. S.H.P.: 31,000 = 31 to 35 kts. (now less)
Boilers:	Thornycroft
Oil fuel:	400 tons
Complement:	150 to 157

General Notes.—Launched 1914-15. *Kuibyshev*, *Stalin* and *Uritski* built by Leningrad Metal Works, others by Putilov Works, Leningrad. *Kuibyshev* and *Karl Liebknecht* commissioned 1927 and 1928 respectively. All carry mines. *Stalin* and *Voilov* in Far East.

Appearance Notes.—Vary according to builders. Some have raking funnel tops. *Stalin* reconstructed and differs from the remainder of the class in appearance. *Uritski* was reconstructed in 1937. *Kuibyshev* has mainmast forward of after funnel.

Destroyers—*continued.*

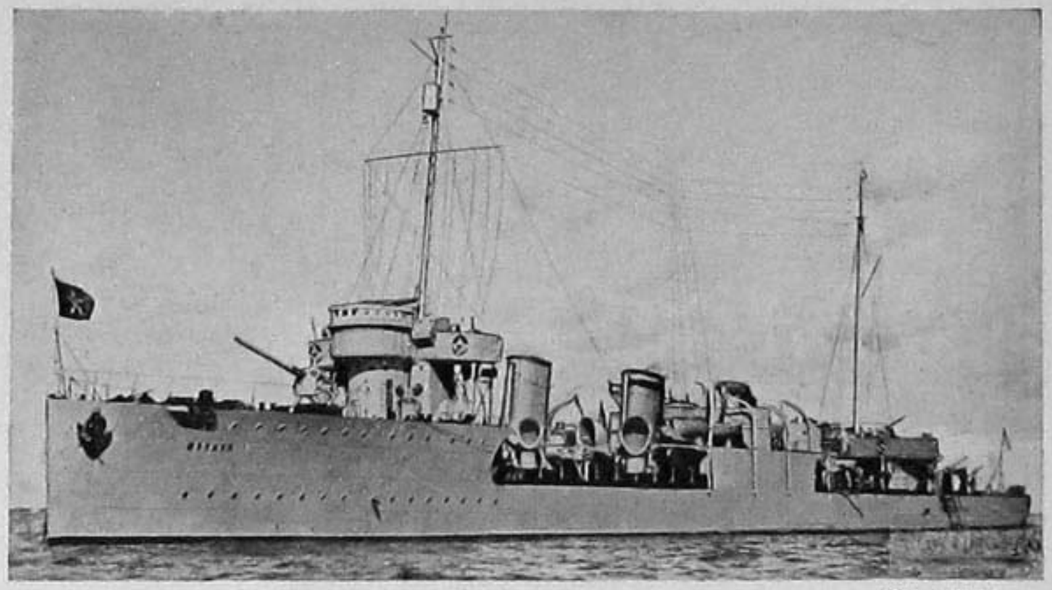
1 Ex-Japanese Type.

Added 1952, Official Photo.

Ex-HIBIKI

Launched	1932
Displacement:	2,300 tons
Dimensions:	388¾ (*o.a.*) × 34 × 10½ feet
Guns:	6—5·1 inch, etc.
Tubes:	9—24 inch. 15 torpedoes
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 50,000 = 34 kts.
Boilers:	3 Kampon
Oil fuel:	420 tons

Note.—Former Japanese. She was the only ship of the modified "Fubuki" class which survived. Delivered to Russia at Nakhodoka July 5, 1947. Name "Hibiki" means "Sound" or "Echo."



1935, *J. Weinberg.*

NEZAMOSHNIK (ex-*Zante*)

Displacement:	1,323 tons *standard* (1,600 tons *full load*)
Dimensions:	303½ × 29½ × 9 feet
Guns:	3—3·9 inch, 2—57 mm., 2—37 mm. AA.
Tubes:	6—21 inch
Machinery:	Turbine engines. S.H.P.: 29,000 = 30 kts. (designed) now 26 kts.
Oil fuel:	390 tons
Complement:	161

Notes.—Originally designed to carry 80 mines of pre-1914 war pattern, but now has 45 of heavier type. Built at Nikolaiev and launched. 1917. *Nezamoshnik* not completed till 1923. Sister ship *Zhelyeznyakov* transferred to Bulgaria.

Frigates.

Ex-HATSUZAKUBA. *Added 1953, Hajime Fukaya.*

Ex-HATSUZAKURA (ex-Susuki)	Ex-KAYA	Ex-KIRI	Ex-SHII
Displacement :	1,580 tons (*Hatsuzakura* and *Shii*), 1,530 tons (others)		
Dimensions :	328 (o.a.) × 30½ × 11 feet (first two), 10½ feet (others)		
Guns :	3—5·1 inch, 60 cal., 24—25 mm. AA.		
Tubes :	4—24 inch (quadrupled)		
Machinery :	Turbines, 2 shafts, S.H.P. : 19,000 = 27·8 kts.		
Boilers :	2		

Notes.—Former Japanese Escort destroyers. Launched 1944-45. Delivered to Russia at Nakhodoka, July 5 (Shii) and July 29, 1947.

Added 1952, Hajime Fukaya.

Ex-Nos. 34 43 52 76 78 102 142 196	
Displacement:	930 tons (1,250 tons *full load*)
Dimensions:	228 (o.a.) × 28½ × 10 feet
Guns:	2—4·7 inch d.p. (single mounts), 12—25 mm. M.G., 120 D.C. (original armament)
Machinery:	Turbine. S.H.P.: 2,500 = 17·5 kts. (*designed*)

Notes.—Former Japanese Escorts, Type D or No. 2 Type. Launched 1944-46. Delivered to Russia July 5, 1947 to Aug. 28, 1947.

Added 1952. Hajime Fukaya.

Ex-Nos. 71 77 79 105 221 227	
Displacement:	810 tons (1,000 tons *full load*)
Dimensions:	221½ (o.a.) × 27½ × 9½ feet
Guns:	2—4·7 inch d.p. (single mounts), 12—25 mm. M.G., 120 D.C. (original armament)
Machinery:	Diesel. B.H.P.: 1,900 = 16·5 kts. (*designed*)

Notes.—Former Japanese Escorts, Type C or No. 1 Type. All launched 1943-46. Delivered to Russia July 5, 1947 to Aug. 28, 1947.

Frigates—*continued.*

Added 1952, Hajime Fukaya.

Ex-IKINO	Ex-KOZU
Displacement:	1,020 tons (1,375 tons *full load*)
Dimensions:	258½ (o.a.) × 30 × 10 feet
Guns:	3—4·7 inch (twin mount and 1 single mount), 2—40 mm. AA., 15—25 mm. M.G., 120 D.C.
Machinery:	Diese's. 2 shafts. B.H.P.: 4,200 = 19·5 kts.
Complement:	150

Notes.—Former Japanese destroyer escorts known as Escorts, Type A, or modified Type B. Launched 1943-44. Delivered to Russia at Nakhodoka July 29, 1947 and Aug. 28, 1947, respectively.

Added 1951.

Ex-LARK

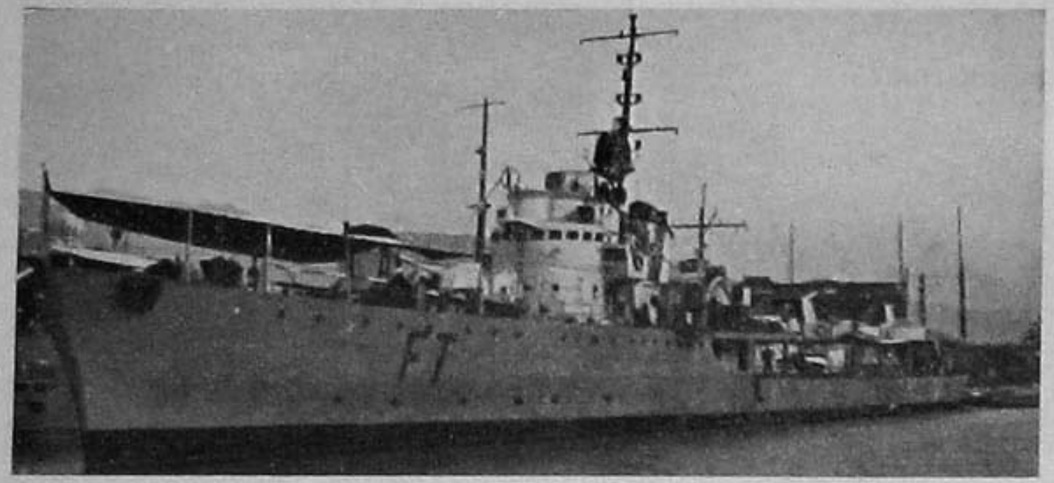
Builders:	Scott's S.B. & Eng. Co., Ltd.
Laid down:	5 May 1942
Launched:	28 Aug. 1943
Completed:	10 Apr. 1944
Displacement:	1,350 tons (*designed*), (1,925 tons *full load*)
Dimensions:	299½ × 38½ × 11 feet
Guns:	6—4 inch, 4—40 mm., 2—20 mm.
Machinery:	Parsons geared turbines. 2 shafts. S.H.P.: 4,300 = 19·75 kts.
Boilers:	2, of 3-drum type
Complement:	200

Notes.—British war loss (dated 17 Feb., 1945). Officially listed as damaged beyond repair by torpedo. She had been very heavily punished during an Arctic convoy action, and wreck was thought to have been scrapped at Murmansk, but subsequently reported that she was refitted in Russian hands.

3 Improved "Birds" Class.

ALBATROS	CHAIKA	KRETCHET
Displacement :	920 tons (1,300 tons *full load*)	
Dimensions:	278½ × 27½ × 9½ feet	
Guns:	3—4 inch, 4—37 mm. AA., 8 M.G.	
Tubes:	3—17·7 inch	
Machinery:	S.H.P.: 23,000 = 34 kts.	
Complement:	92	

Notes.—Improved "Birds" class. Launched 1940. All in Black Sea. Names mean Albatross, Seagull, Buzzard, respectively.



FORTUNALE. 1947, *Lieut. Aldo Fraccareli.*

Ex-**ANIMOSO** (ex-Z 16) Ex-**ARDIMENTOSO** (ex-Z 19) Ex-**FORTUNALE** (ex-Z 17)

Displacement:	1,192 tons (1,623 tons *full load*)
Dimensions:	270½ (*pp.*), 293 (*o.a.*) × 32½ × 9½ feet
Guns:	2—3·9 inch, 60 cal., 12—20 mm. AA. (*Fortunale* has 3—3·9 inch)
Tubes:	4—17·7 inch
Machinery:	2 sets Tosi geared turbines. 2 shafts. S.H.P.: 15,000 = 25 kts.
Boilers:	2, of 3-drum type
Oil fuel:	430 tons
Complement:	130

Notes.—Ex-Italian Ceded to Russia under Peace Treaty. Delivered to Russia Feb. 1949, 27 Oct. 1949 and 1 Mar. 1949, respectively.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Animoso	Ansaldo, Sestri	3 Apr. 1941	15 Apr. 1942	14 Aug. 1942
Ardimentoso	Ansaldo, S. Pier d'Arena	7 Apr. 1941	29 May 1942	14 Dec. 1942
Fortunale	C.R.D.A., Trieste	9 May 1941	18 Apr. 1942	16 Aug. 1942

Added 1952, *Hajime Fukaya.*

Ex-**SHUMUSHU**

Builders:	Tamano (Mitsui)
Laid down:	29 Nov. 1938.
Launched:	13 Dec. 1939.
Complete:	30 June 1940
Displacement:	1,020 tons (1,350 tons *full load*)
Dimensions:	255 × 30 × 10 feet
Guns:	3—4·7 inch, 15—25 mm. M.G., 60 D.C.
Machinery:	2 sets Diesels. 2 shafts. B.H.P.: 4,200 = 19·7 kts.
Complement:	147

Notes.—Former Japanese Destroyer Escort known as Escort, Type A. Used for repatriation service after the war. Delivered to Russia at Nakhodoka July 5, 1947. Fitted for minelaying. Now has straight bow.

7 "Birds" Class.

YASTREB. 1948.

BERKUT **GRIF** **KONDOR** **KORSHUN** **ORYOL** **VORON** **YASTREB**

Displacement:	842 tons (1,250 tons *full load*)
Dimensions:	275 × 27½ × 9½ feet
Guns:	3—3·9 inch, 4—37 mm. AA.
Tubes:	3—17·7 inch
Machinery:	S.H.P.: 23,000 = 35 kts.
Complement:	98

Notes.—"Birds" class. All launched 1939. In Baltic. Names mean Golden Eagle, Griffin, Condor, Vulture, Eagle, Raven, Hawk, respectively.

KIJI (after being disarmed). *Added* 1953, *Hajime Fukaya.*

Ex-**KIJI**

Launched:	1936
Displacement:	1,043 tons
Dimensions:	290 × 27 × 9½ feet
Guns:	2—3·9 inch, 60 cal., 11—25 mm. AA., 48 D.C.
Tubes:	3—21 inch
Machinery:	Turbines. 2 shafts. S.H.P.: 19,000 = 30·5 kts.
Boilers:	2 Kampon

Notes.—Former Japanese torpedo boat taken over under the Peace Treaty. Delivered to Russia at Nikhodoka, Oct. 3, 1947.

2 Ansaldo Type.

DZERZHINSKI (ex-*P.S.* 8) **KIROV** (ex-*P.S.* 26)

Displacement:	810 tons *standard* (1,200 tons *full load*)
Dimensions:	249½ (*pp.*), 262½ (*o.a.*) × 27½ × 16½ feet
Guns:	2—4 inch, 4—40 mm. AA., 2 M.G.
Mines:	Can carry 40 to 50
Machinery:	3 Fiat and Tosi Diesels respectively, 3 shafts. B.H.P.: 4,800 = 20 kts. (Trials: H.P.: 5,400 = 22 kts.)
Oil fuel:	44 tons
Complement:	120

Notes.—Built by Ansaldo. Launched Aug. 19 and Sept. 18, 1934, respectively. Fitted for minelaying. Coastguard vessels. In Far East.

177R

2 Ex-German Type.

1944, *courtesy M. Henri Le Masson.*

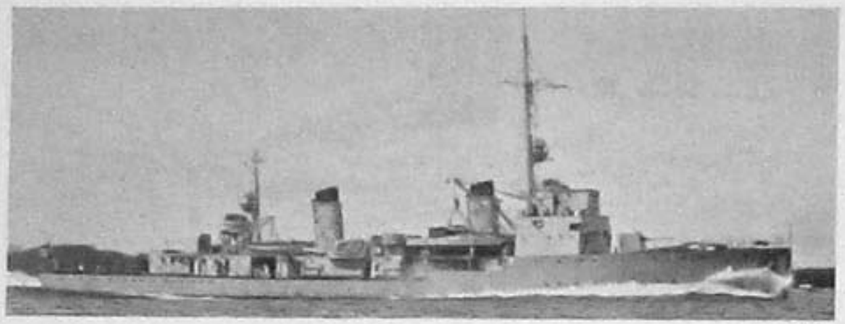
	PODVIZHNOI (ex-*T* 12)	**PORYVISTI** (ex-*T* 17)
Displacement:	860 tons (1,110 tons *full load*)	
Dimensions:	267 (*pp.*), 286 (*o.a.*) × 28½ × 6½ feet	
Guns:	1—4·1 inch, (aft), 2—37 mm., 12—20 mm.	
Tubes:	6—21 inch (tripled)	
Machinery:	Geared turbines. 2 shafts. S.H.P.: 33,000 = 36 kts.	
Boilers:	4 Wagner	
Complement:	110	

Notes.—Launched 1938-39. Both ex-German torpedo boats or small destroyers. Built by Deschimag, Bremen, and Schichau, Elbing respectively. "Poryvisti" means "Impetuous."

3 "Molnya" Class.

	MOLNYA	**SERP**	**ZARNITZA**
Displacement:	670 tons		
Dimensions:	236½ × 24½ × 9½ feet		
Guns:	2—3·9 inch, 4—37 mm. AA., 2 M.G.		
Tubes:	3—17·7 inch		
Mines:	50		
Speed:	31·5 kts.		

Notes.—All launched 1937–39. Reported to be a great improvement on design of *Shtorm* class. All in Far East. Three further boats *Mgla, Moroz, Tuman*, reported in White Sea, but not confirmed.

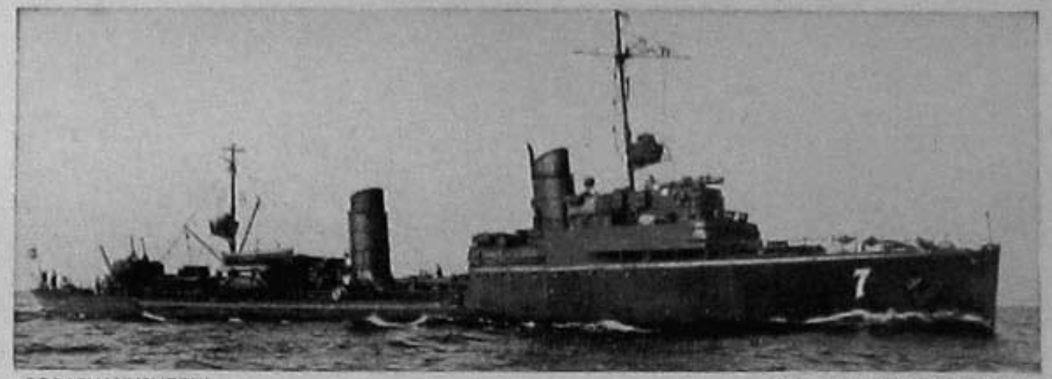


1948.

Ex-F 7

Builders:	Blohm & Voss
Laid down:	1935
Launched:	25 May 1935
Completed:	1936
Displacement:	600 tons
Dimensions:	241 (*pp.*), 249½ (*o.a.*) × 28½ × 8½ (*mean*) feet
Guns:	2—4·1 inch, 50 cal., 4—37 mm. AA., 2 M.G., and D.C.T.
Machinery:	Geared turbines. 2 shafts. S.H.P.: 9,000 = 28 kts.
Boilers:	4 Schulz high pressure
Oil fuel:	245 tons

Notes.—Former German escort vessel (geleitboot). Fitted for minelaying. In the Baltic.



PORASHAYUSHTCHI. 1938, *courtesy Dr. Erich Gröner.*

PORASHAYUSHTCHI (ex-*T* 107, ex-*G* 107)

Builders:	Germania, Kiel
Launched:	1911
Displacement:	760 tons
Dimensions:	247½ × 25 × 10½ feet
Guns:	1—4·1 inch, 2 M.G.
Tubes:	3—21 inch
Machinery:	2 sets turbines. 2 shafts. S.H.P.: 16,000 = 25 kts. (designed)
Boilers:	3 Schulz
Oil fuel:	173 tons

Notes.—Old ex-German torpedo boat, acquired 1946. Speed now considerably reduced. "*Porashayushtchi*" means "Hitting."

PRONZITELNY (ex-*T* 196, ex-*G* 196)

Builders:	Germania, Kiel
Launched:	1911
Displacement:	797 tons
Dimensions:	242½ × 26½ × 10½ feet
Guns:	2—4·1 inch, 2 M.G.
Tubes:	2—19·7 inch
Machinery:	2 sets turbines. 2 shafts. S.H.P.: 18,200 = 25 kts. (now less)
Boilers:	3 Schulz
Oil fuel:	204 tons

Notes.—Old ex-German torpedo boat, acquired 1946. Now classified as escort vessel on account of reduced speed.

PROZORLIVI. *Added 1948.*

PROZORLIVI (ex-*T* 158, ex-*V* 158)

Builders:	Vulkan-Stettin
Launched:	1908
Displacement:	675 tons
Dimensions:	237 × 25½ × 10½ feet
Guns:	1—3·5 inch, 1 M.G.
Tubes:	2—19·7 inch
Machinery:	Triple expansion. 2 shafts. I.H.P.: 10,900 = 22 kts. (now less)
Boilers:	4 Schulz
Oil fuel:	181 tons

Notes.—Old German torpedo boat, acquired 1946. Now classified as escort vessel on account of reduced speed.

Submarines (*Podvodniye Lodki*).

Note.—Some 370 submarines are in service or reserve. Most are known by numerals; some by names as well.

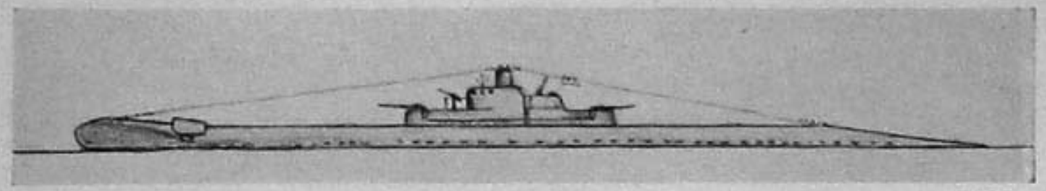
New Construction.

About 100 submarines are under construction in Soviet dockyards. These belong to five different types, all to be fitted with snort, as follows: 1. Improved "K" type with high submerged speed. 2. Fast large minelaying type. 3. German type XXI. 4. German type VII. 5. German type XXIII.

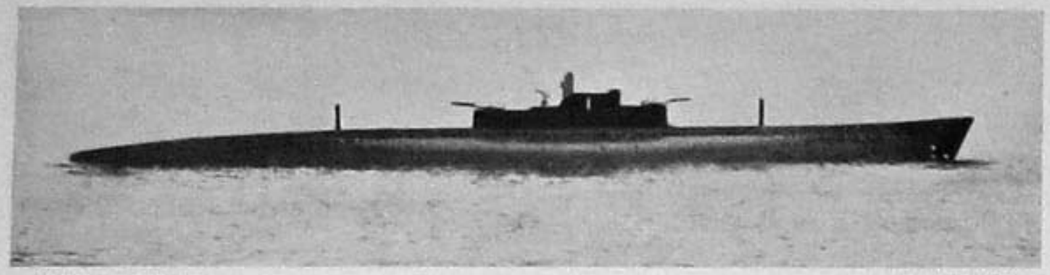
Improved "K" Class.

Displacement:	1,560 to 1,700 tons (*surface*); 2,300 tons (*submerged*)
Tubes:	10—21 inch
Speed:	20 to 23 kts. (*surface*) max., 18 or 19 kts. (*submerged*)

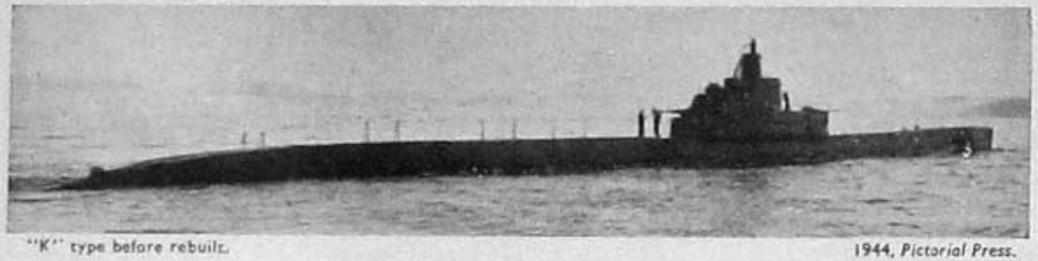
18 "K" Class.



"K" type. 1949.



"K" type as rebuilt. *Added* 1948.



"K" type before rebuilt. 1944, *Pictorial Press.*

K 1 **K 2** **K 20** **K 21** (White Sea)
K 51 **K 52** **K 53** **K 54** **K 55** **K 56** (Baltic)
K 57 **K 58** **K 60** **K 61** **K 62** **K 65** **K 77** **K 78**

Displacement:	1,457 tons (*surface*); 2,062 tons (*submerged*)
Dimensions:	282 (*pp.*), 320 (*o.a.*) × 24 × 14 feet
Guns:	2—4 inch, 2—45 mm. AA.
Tubes:	10—21 inch (20 torpedoes carried)
Machinery:	Diesels, B.H.P.: 8,400 = 18 to 22·5 kts. (*surface*); electric motors, H.P.: 2,400 = 10 kts. (*submerged*)
Complement:	62

Notes.—Launched 1939–43. Believed fitted for minelaying. Apparently developed from "P" type. May include 2 submarines built by public subscription in 1943 and said to have been named *Chelyabinski Komsomolyetz* and *Yaroslavski Komsomolyetz*. This class can operate at great distances and for long periods.

Submarines—*continued.*

Ex-German Types.

N 27. 1948.

Type XXI

N 27 (ex-*U* 2529) **N 28** (ex-*U* 3035) **N 29** (ex-*U* 3041) **N 30** (ex-*U* 3515)

Displacement:	1,280 tons (*designed*), 1,600 tons (*surface*), 1,830 tons (*submerged*)
Dimensions:	252¾ × 21¾ × 20¼ feet
Guns:	4—37 mm. AA.
Tubes:	6—21 inch (23 torpedoes stowed)
Machinery:	M.A.N. Diesels, B.H.P.: 4,000 = 15 kts. (*surface*); electric motors, H.P.: 5,000 = 17·5 kts. (*submerged*)
Oil fuel:	250 tons

Notes.—All launched 1944-45. N 27 built by Blohm & Voss, N 28 and N 29 by Deschimag, Bremen, N 30 by Schichau, Danzig. Equipped with snort. Long cruising range. High underwater speed.

Ex-U 1174 **Ex-U 1176** **Ex-U 1177**

Note.—Particulars as above. Hull numbers were G 146, G 148, G 149, respectively.

Ex-U 3535 **Ex-U 3537** **Ex-U 3539** **Ex-U 3541**
Ex-U 3536 **Ex-U 3538** **Ex-U 3540** **Ex-U 3542**

Notes.—Particulars as above. These numbers were allocated to German Type XXI hulls Nos. G 1680, G 1681, G 1682, G 1683, G 1684, G 1685, G 1686 and G 1687, respectively. Boats with these numbers were nearly completed by the end of the war, and were later taken over by the Russians.

Type IXc

Ex-U 1231

Builders:	Deutsche Werke, Kiel
Launched	1942
Displacement:	850 tons (*designed*), 1,102 tons (*surface*), 1,232 tons (*submerged*)
Dimensions:	252¾ × 22¼ × 15½ feet
Guns:	1—4·1 inch, 4—20 mm. AA., 4 M.G.
Tubes:	6—21 inch (4 bow, 2 stern) (22 torpedoes stowed)
Machinery:	M.A.N. 9-cyl. Diesels, B.H.P.: 4,400 = 18·2 kts. (*surface*); and electric motors. 2 shafts. H.P.: 1,000 = 7·3 kts. (*submerged*)
Oil fuel:	200 tons
Complement:	52

Ex-U 18 **Ex-U 24**

Displacement:	240 tons (*surface*), 329 tons (*submerged*)
Dimensions:	140 × 13½ × 12 feet
Guns:	2—20 mm. AA.
Tubes:	3—21 inch (5 torpedoes)
Machinery:	Diesels, B.H.P.: 700 = 13 kts. (*surface*); electric motors, H.P.: 360 = 7 kts. (*submerged*)

Notes.—Raised after being scuttled at Constanza. Used for training. No snort.

Submarines—*continued.*

Ex-German Types.

Ex-U 1305. *Added 1948.*

Ex-U 1604. 1948.

Type VII

Ex-U 1057 Ex-U 1058 Ex-U 1064 Ex-U 1305

Displacement:	595 tons (*designed*), 741 tons (*surface*), 870 tons (*submerged*)
Dimensions:	220 × 20 × 15½ feet
Guns:	1—37 mm. AA., 4—20 mm. AA.
Tubes:	5—21 inch (14 torpedoes stowed)
Machinery:	Diesels of varying types, B.H.P. : 2,800 = 17 kts. (*surface*) ; and electric motors. 2 shafts. H.P. : 750 = 7·6 kts. (*submerged*)
Oil fuel:	110 tons
Complement:	45

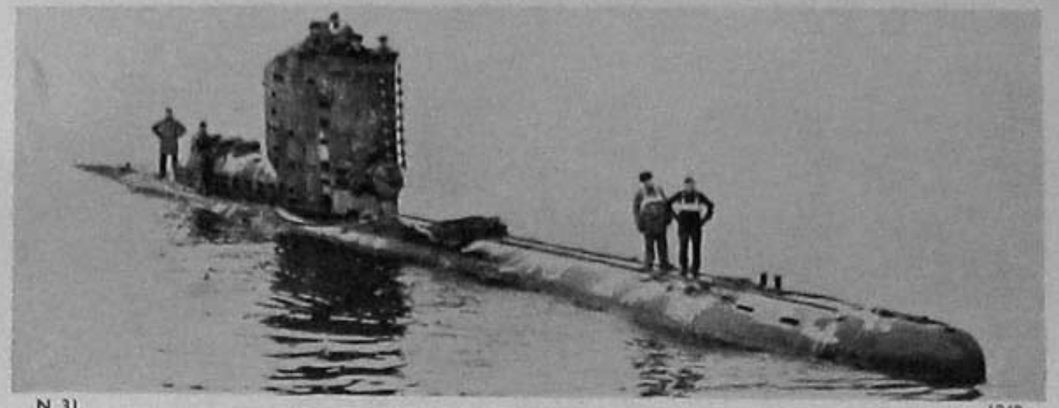
Notes.—Launched 1942–43. First three built by Germania, Kiel; 1305 by Flensburger Schiffbaugesellschaft.

Seehund type.

Displacement :	15 tons (*surface*), 16 tons (*submerged*)
Dimensions:	49½ × 6 × 6 feet
Tubes:	2—18 inch
Machinery:	1 Diesel. B.H.P.: 60 = 7·7 kts. (*surface*); 1 electric motor. H.P.: 25 = 6 kts. (*submerged*)
Complement:	2

Note.—There are a number of these ex-German "Seehund" type boats. (Midget submarines)

Submarines—*continued.*



N 31. 1948.

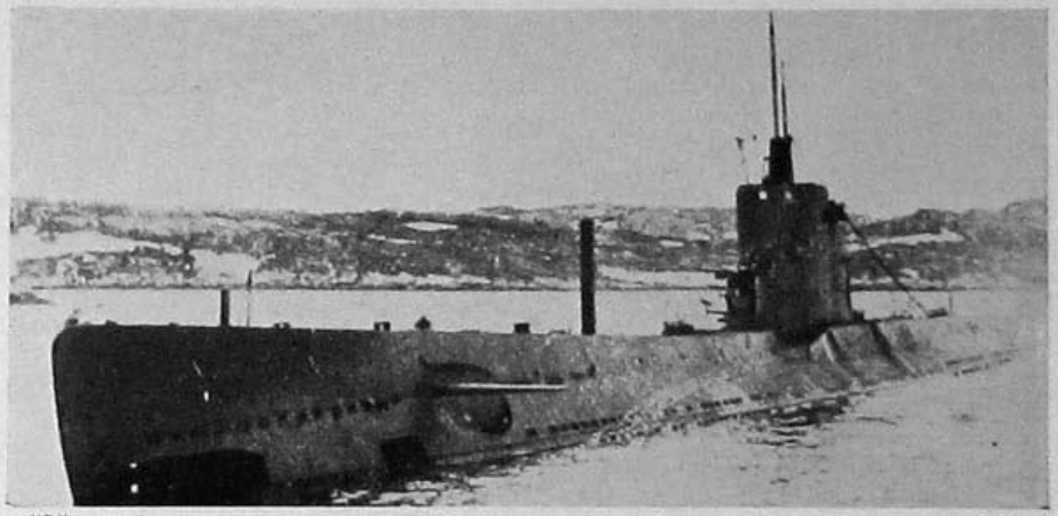
Type XXIII

N 31 (Ex-U 2353)

Builders :	Deutshe Werft, Hamburg
Launched :	1944
Displacement:	228 tons (*surface*) ; 257 tons (*submerged*)
Dimensions:	114 × 11 × 12 feet
Tubes:	2—21 inch (only 2 torpedoes stowed)
Machinery:	1 Diesel, B.H.P. : 575 = 9·75 kts. (*surface*) ; 1 electric motor. H.P. : 580 = 12·5 kts. (*submerged*)
Complement:	13

General Note.—Above is not an exhaustive list of uncompleted hulls of German submarines believed to have been commissioned since falling into Russian hands in 1945.

3 "D" Class.



"D" type. *Added 1949.*

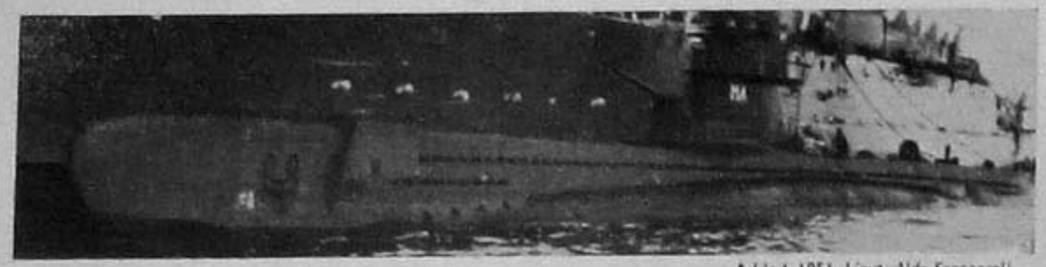
D 2 **D 4** **D 5**

Displacement:	920 tons (*surface*)
Dimensions:	241 (*o.a.*) × 24 × 12½ feet
Guns:	1—4 inch, 1—45 mm. AA., 1 M.G.
Tubes:	8—21 inch
Speed:	15 kts. (*surface*)

Notes.—Launched 1939. Believed to be of Italian design. *D* 2 (named *Krassnoarmeyetz*) is in Baltic, others in Black Sea. War losses: *D* 1, *D* 3, *D* 6.

Submarines—*continued.*

Ex-Italian Types.

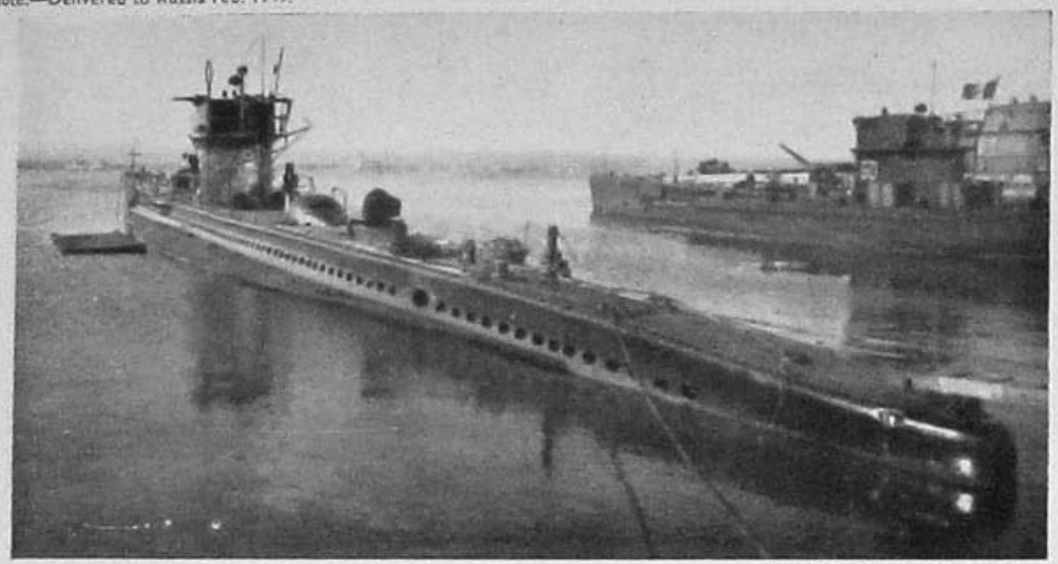


Added 1951, *Lieut. Aldo Fraccaroli.*

Z 13 (Ex-MAREA)

Builders:	C.R.D.A., Monfulcone
Laid down:	1 Dec. 1941
Launched:	10 Dec. 1942
Completed:	7 May 1943
Displacement:	746 tons *standard*, 905 tons (*surface*), 1,068 tons (*submerged*)
Dimensions:	207½ × 22½ × 16 feet
Guns:	1—3·9 inch, 47 cal., 1—20 mm., 4 M.G.
Tubes:	6—21 inch (bow) (12 torpedoes carried)
Machinery:	Fiat Diesels, 2 shafts. B.H.P.: 2,400 = 16 kts. (*surface*); H.P.: 1,350 = 8 kts. (*submerged*).
Radius of action:	12,000 miles at 8·5 kts.
Complement:	52

Note.—Delivered to Russia Feb. 1949.



Added 1951, Lieut. Aldo Fraccaroli.

Z 14 (Ex-NICHELIO)

Builders:	O.T.O., Muggiano
Laid down	1 July 1941
Launched:	12 Apr. 1942
Completed:	30 July 1942
Displacement:	643 tons *standard*, 701 tons (*surface*), 865 tons (*submerged*)
Dimensions:	197½ × 21½ × 15½ feet
Guns:	1—3·9 inch, 47 cal., 4—13·2 mm. M.G.
Tubes:	6—21 inch (4 bow, 2 stern) (12 torpedoes stowed)
Machinery	2 Tosi Diesels, 2 shafts. B.H.P.: 1,350 = 14·7 kts. (*surface*); 2 Marelli motors, H.P. 800 = 7.9 kts. (*submerged*).
Oil fuel:	40 tons (*normal*), 78 tons (*max.*)
Complement:	54

Note.—Delivered to Russia Feb. 1949.

Submarines—*continued.*

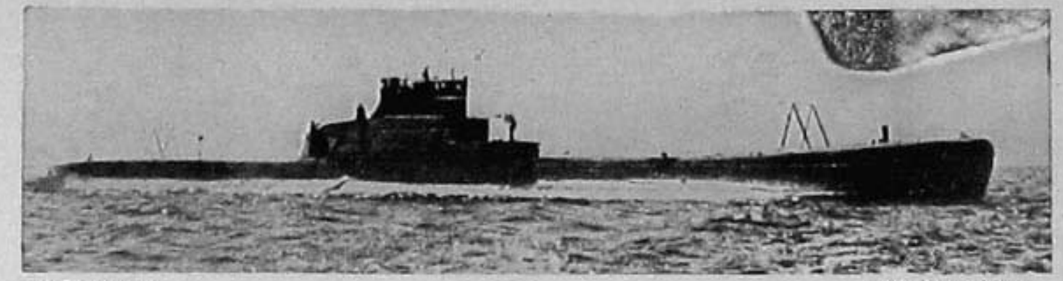
33 + "S" Class.

S 4	S 9	S 12	S 13	Baltic	S 14	S 15	S 16	S 17	White Sea	S 18	S 19	S 20	S 21	S 22	S 23	S 24	S 25	S 26	S 33	S 35	S 36	S 50	S 51	S 52	S 53	White Sea	S 54	S 55	S 56	White Sea	S 101	S 102	S 103	S 104	White Sea	S 137	S 139	(Far East)

Displacement:	780 tons (*surface*)
Dimensions:	256 × 21 × 13 feet
Guns:	1—3 inch, 1—45 mm. AA.
Tubes:	6—21 inch
Speed:	20 kts. (*surface*); 8·5 kts. (*submerged*).

Notes.—Launched 1937-40. Further boats of this class reported to be in Far East. *Marsuinul* and *Requinul* returned to Roumania.

72 "Shtcha" Class.



SHTCHA type. 1942, *Pictorial Press.*

Sh. 101	Sh. 105	Sh. 109	Sh. 113	Sh. 117	Sh. 121	Sh. 125	Sh. 129	Sh. 133	Sh. 137
Sh. 102	Sh. 106	Sh. 110	Sh. 114	Sh. 118	Sh. 122	Sh. 126	Sh. 130	Sh. 134	Sh. 138
Sh. 103	Sh. 107	Sh. 111	Sh. 115	Sh. 119	Sh. 123	Sh. 127	Sh. 131	Sh. 135	Sh. 139
Sh. 104	Sh. 108	Sh. 112	Sh. 116	Sh. 120	Sh. 124	Sh. 128	Sh. 132	Sh. 136	Sh. 141
									All in Far East
Sh. 201	Sh. 203	Sh. 205	Sh. 207	Sh. 215	In Black Sea				
Sh. 305	Sh. 307	Sh. 309	Sh. 310	Sh. 317	Sh. 318	Sh. 407	Sh. 408	In Baltic	
Sh. 401	Sh. 402	Sh. 403	Sh. 404	Sh. 410	Sh. 411	Sh. 412	Sh. 422	Sh. 426	Sh. 428
									In White Sea
Sh. 303	Sh. 400	Sh. 425	Sh. 429	Sh. 430					
Sh. 308	Sh. 419	Sh. 427	Sh. 431						

Displacement:	620 tons (*surface*); 738 tons (*submerged*)
Dimensions:	190½ × 19½ × 13 feet
Guns:	2—45 mm. AA., 2 M.G.
Tubes:	6—21 inch (10 torpedoes)
Machinery:	B.H.P.: 1,600 = 15·5 kts. (*surface*); 8.5 kts. (*submerged*)

Notes.—Medium type. Launched 1935-47. Variations in design between earlier and later units. *Shtshuka*, name of first boat built, means pike, and as it began with letter "Shtcha" it became the identification letter of the whole class, which are named after fishes, including *Linj* (305), *Syomga* (308), *Delfin* (309), *Treska* (307) and *Beluga* (310). Several boats of the earlier series of this class have been removed from the active list.

175R

Submarines—*continued.*

1 Vickers Type.

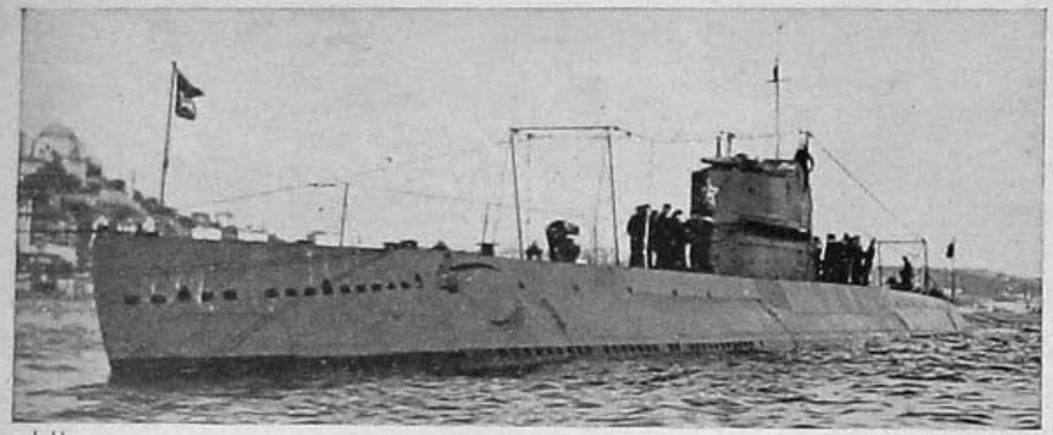
1937, *Wright & Logan.*

LEMBIT

Builders:	Vickers-Armstrongs, Barrow
Launched:	7 July 1936
Displacement:	600 tons (*surface*) ; 820 tons (*submerged*)
Dimensions:	190 (*o.a.*) × 24½ × 11½ feet
Guns:	1—40 mm. AA., 1—20 mm. AA.
Tubes:	4—21 inch (bow)
Machinery :	2 Vickers Diesels, B.H.P.: 1,200 = 13·5 kts. (*surface*), Electric motors, H.P.: 450 = 8·5 kts. (*submerged*)
Radius:	2,000 miles at 10 kts.
Complement:	30

Note.—This submarine was originally built for the Estonian Navy, and was fitted for minelaying, being designed to carry 20 mines.

24 "L" Class.



L 11.

1935, *J. Weinberg.*

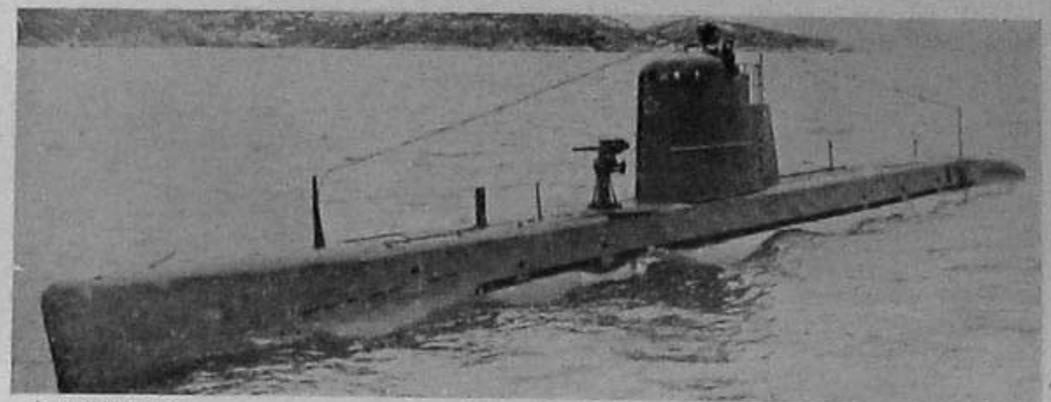
L 3 (*ex-Krasnogvardeyets*) **L 21** in Baltic
L 4 (*ex-Bezboshnik*) **L 5** **L 6** **L 23** **L 25** **L 31** **L 32** (former names uncertain), in Black Sea
L 15 **L 20** **L 22** (former names uncertain), in White Sea
L 7 **L 8** **L 9** **L 10** **L11** **L 12** **L 13** **L 14** **L 16** **L 17** (include ex-*Yakobinetz*, *Dekabrist* and *Spartakovetz*, now numbered *L* 11-13), in Black Sea.
L 18 **L 19** in Far East.

Displacement:	1,100 tons (*surface*) ; 1,450 tons (*submerged*)
Dimensions:	263 (*pp.*), 279 (*o.a.*) × 23 × 16½ feet
Guns:	1—4 inch AA., 1—37 mm. AA., 2 M.G.
Tubes:	8—21 inch (6 bow, 2 stern) (12 torpedoes carried)
Machinery:	B.H.P.: 2,500 = 16 kts. (*surface*) ; H.P. : 1,200 = 9 kts. (*submerged*)
Radius:	7,000 miles at 9 kts. (*surface*)
Complement:	50

Notes.—Launched 1929-35. Fitted for minelaying, and each carry about 14 mines, according to type and size.

Coastal Submarines.

91 Later "M" Type.



Later "M" type.

Added 1955, courtesy M. J. Meister.

M 102	M 116	M 175	M 212	M 241	M 252	M 264	M 276
M 103	M 117	M 177	M 214	M 242	M 253	M 265	M 277
M 104	M 118	M 200	M 215	M 243	M 254	M 266	M 278
M 105	M 119	M 201	M 216	M 244	M 255	M 267	M 279
M 106	M 120	M 202	M 219	M 245	M 256	M 268	M 280
M 107	M 121	M 203	M 234	M 246	M 257	M 269	M 281
M 111	M 122	M 204	M 235	M 247	M 258	M 270	M 282
M 112	M 130	M 205	M 237	M 248	M 259	M 271	M 283
M 113	M 171	M 206	M 238	M 249	M 260	M 272	M 401
M 114	M 172	M 209	M 239	M 250	M 261	M 273	M 404
M 115	M 174	M 211	M 240	M 251	M 262	M 274	M 421
					M 263	M 275	M 515

Displacement:	205 tons (*surface*), 256 tons (*submerged*)
Dimensions:	146 × 10½ × 8½ feet
Guns:	1—45 mm. AA., 1 M.G.
Tubes :	2 or 4—21 inch
Machinery:	Diesels. B.H.P.: 800 = 13 kts. (*surface*). Electric motors H.P.: 400 = 8 kts. (*submerged*)
Oil fuel:	18 tons
Radius:	3,400 miles at 8 kts. (*surface*), 90 miles at 3 kts. (*submerged*)
Complement:	20

Notes.—Launched 1940-45. For coastal operations. Enlarged and improved editions of original "M" type. Some reported to have been transported in sections on Trans-Siberian Railway and assembled at Vladivostock for service in the Pacific. Nearly all in the Baltic except M 103-106, 118-122, 172, 174, 175, 177.

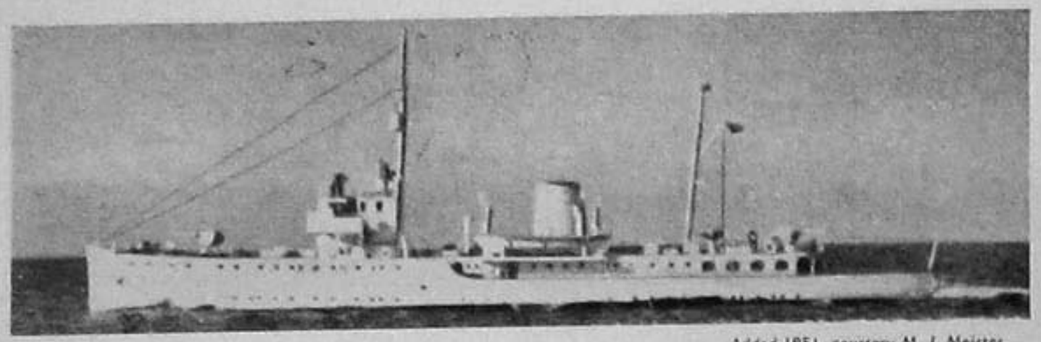
72 Early "M" Type.

M 1	M 10	M 19	M 28	M 38	M 47	M 73	M 86
M 2	M 11	M 20	M 29	M 39	M 48	M 74	M 87
M 3	M 12	M 21	M 30	M 40	M 49	M 75	M 88
M 4	M 13	M 22	M 32	M 41	M 51	M 77	M 89
M 5	M 14	M 23	M 33	M 42	M 55	M 79	M 90
M 6	M 15	M 24	M 34	M 43	M 56	M 80	M 91
M 7	M 16	M 25	M 35	M 44	M 57	M 82	M 92
M 8	M 17	M 26	M 36	M 45	M 62	M 84	M 93
M 9	M 18	M 27	M 37	M 46	M 63	M 85	M 96

Displacement:	161 tons (*surface*) ; 202 tons (*submerged*)
Dimensions:	124 × 10½ × 8½ feet
Guns:	1—45 mm. AA., 1 M.G.
Tubes:	2—21 inch
Machinery:	B.H.P.: 685 = 13 kts. (*surface*) ; H.P. : 240 = 7 kts. (*submerged*)

Notes.—Launched 1935–40. Known by numbers prefixed by "M". All built on a mass-production basis, notably at Gorki, and sent to their assembly ports in sections. Can be easily transported by rail, but have a very limited radius of action. Majority removed from active lists and placed in reserve. Some discarded. M 73, 74, 75, 77, 79, 89, 90, 91, 92, 93, 96 in Baltic.

Patrol Vessels.



Added 1951, *courtesy* M. *J. Meister.*

LUGA (ex-Estonian *Pikker*)

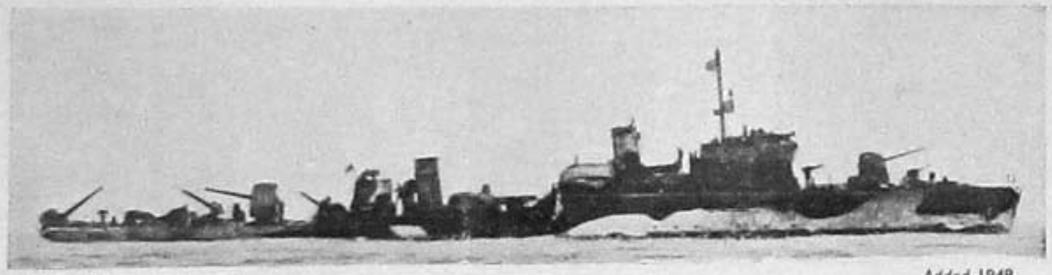
Builders:	Reval (Tallinn)
Launched	1939
Completed:	1940
Displacement:	500 tons *standard*
Dimensions:	190 × 23¾ × 7¾ feet
Guns:	2—3 inch, 50 cal., some small AA.
Machinery:	Diesel engines. 2 shafts
Speed:	16 kts.

Notes.—Built as presidential yacht and training ship for the Estonian Fleet; taken over by Russians 1940. In the Baltic. Officially rated as patrol vessel. Reported to be serving as tender to M.T.B's. in Baltic.

BRILYANT **RUBIN** **SAPFIR**

Displacement:	550 tons
Dimensions:	203 × 23 × 9 feet
Guns:	1—4 inch, 2—37 mm., 2 M.G.
Machinery:	S.H.P.: 2,300 = 17 kts.
Oil fuel:	85 tons
Complement:	58

12 "Shtorm" Class.



TOOTCHA. *Added* 1948.

BURUN **GROZA** **SHKVAL** **SMERTCH** **TOOTCHA** **VICHR**
GROM **METELJ** **SHTORM** **TAIFUN** **URAGAN** **VYOUGA**

Displacement:	487 tons (620 tons *full load*) Ships vary
Dimensions:	233 (pp.) × 24 × 8¼ feet
Guns:	2—3·9 inch, 4—1·5 mm. AA., 4 M.G., 2 D.C.T.
Tubes:	3—17·7 inch (tripled)
Mines:	50
Machinery:	Geared turbines. 2 shafts. S.H.P.: 5,000 to 6,500 = 24 to 25 kts.
Boilers:	2, of 3-drum type
Oil fuel:	115 tons
Complement:	72

Notes.—All launched 1932-36. Reported fore and aft gun turrets removed, replaced with AA. guns. Mainmast removed. Officially rated as escort vessels. *Shtorm* and *Shkval* (Group I) stationed in Black Sea, *Burun, Grom, Metelj, Vyouga* in Far East, *Groza, Smertch, Uragan* (Group III) in White Sea, *Taifun, Tortcha, Vichr* (Group II) in Baltic. War losses: *Buryo, Tsiklon, Snyeg.*

KONSTRUCTOR (ex-*Sibirski Stryelok*)

Displacement:	750 tons
Dimensions:	234½ × 26½ × 11½ feet
Guns:	3—3 inch AA., 2—45 mm. AA., 2 M.G.
Machinery:	Reciprocating engines. 2 shafts. Present speed = 20 kts.

Notes.—Old torpedo boat. Launched 1906. Officially classed as gunboat. 50 mines. 2 funnels. In Baltic.

ALTFATER (ex-*Turkmenetz-Stavropolski*) **MARKIN** (ex-*Ukrania*) **BAKINSKI-RABOTCHI** (ex-*Voiskovoi*)

Displacement:	800 tons
Dimensions:	240 × 23½ × 7½ feet
Guns:	3—3·9 inch, 2—45 mm. AA., 2—37 mm. AA., 4 M.G.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 6,200 = 19 kts.
Boilers:	4 Normand
Coal:	50 tons *normal*, 135 tons *full load*
Complement:	110

Notes.—Built by Lange's Yard, Riga. All launched 1904. Old torpedo boats, now classified as gunboats. Were designed for a speed of 25 kts. and originally carried 16 mines. All three are in Caspian.

PIRMUNAS (ex-*Smetona ex-M 59*) Ex-**VIRSAITIS** (ex-*M 68*)

Displacement:	350 tons (525 tons *full load*)
Dimensions:	183½ × 24½ × 8½ (*max.*) feet
Guns:	2—3 inch, 3 M.G. (*Smetona*), 3—3 inch, 2—6 pdr. (*Virsaitis*)
Machinery:	2 sets triple expansion. 2 shafts. I.H.P.: 1,850 = 16 kts.
Boilers:	2 Schultz
Coal:	160 tons
Complement:	48

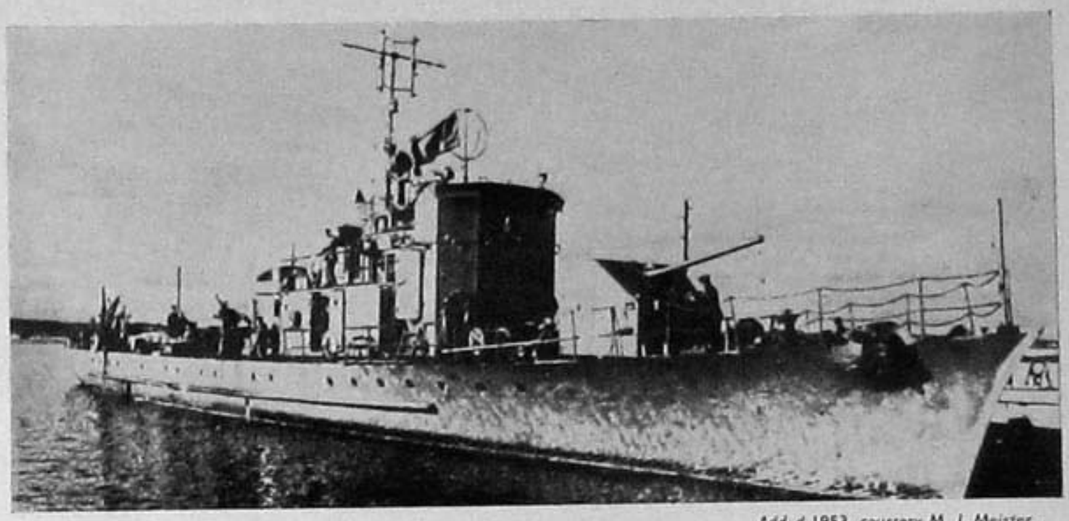
Notes.—Both launched 1917. Ex-German minesweepers reconstructed, and previously owned by Lithuania and Latvia respectively Built by Seebeck, Geestemunde, and Neptun, Rostock, respectively.

AMETIST (ex-*Sulev*, ex-A 32)

Displacement:	228 tons
Dimensions:	165½ × 17½ × 6 feet
Guns:	2—3 inch, 50 cal.
Tubes:	2—18 inch, in double deck mounting
Machinery:	Designed S.H.P.: 3,500 = 26 kts.
Oil fuel:	50 tons
Radius:	975 miles at 20 kts.
Complement:	35

Notes.—Built at Elbing, 1916. Sunk off Estonian coast, Oct. 1917, salved and refitted 1923. Can carry 10 mines. Mainmast shortened 1932. Refitted 1935. This vessel, formerly a unit of the Estonian Navy, was originally German. Officially rated patrol boat.

36 "Artillerist" Class.



Added 1953, *courtesy* M. *J. Meister.*

ARTILLERIST **LETCHIK** **MEKHANIK** **TRIUMNI**
ELEKTRIK **MASHINIST** **PILOT** **TURBINIST**
KIROVETS **MATORIST** **SHTURMAN** and 24 others

Displacement:	240 tons
Dimensions:	157½ × 19 × 6 feet
Guns:	1—3 inch, 2—37 mm., 3 M.G., 2 D.C.T.
Machinery:	S.H.P.: 3,300 = 23 kts.

Fast Minesweepers.

6 "Vasili Gromov" Class.

VASILI GROMOV.

Added 1950.

VASILI GROMOV **VLADIMIR POLUKHIN** **and 4 others**

Displacement:	600 tons (800 tons *full load*)
Dimensions:	250 (*o.a.*) × 26 × 8½ feet
Guns:	2—4 inch, 3—37 mm. AA., 2—20 mm. AA., 4—13 mm. M.G.
Machinery:	Diesel. 2 shafts. B.H.P.: 8,000 = 24 kts.
Oil fuel:	190 tons
Complement:	116

Notes.—Launched 1940-44. Appear to be an enlargement of *Fugas* type on following page, but are more like destroyers in silhouette. Also reported are an improved "Vasili Gromov" class of 17 fast minesweepers similar ro *Vladimir Polokhin* but have 3-inch guns. Reported 12 at Vladivostok and 5 at Leningrad.

Ocean Minesweepers.

14 Ex-German Type.

T 915.

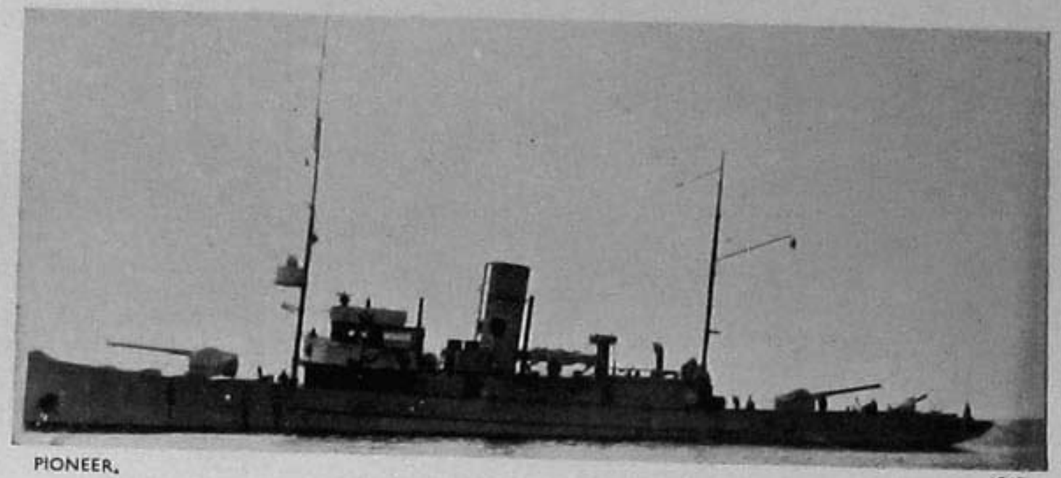
1946, London Studio.

Type I. T 911–924 (ex-German *M 3, 7, 17, 29, 30, 34, 151, 154, 155, 203, 204, 254–256*)

Displacement:	710 tons (900 tons *full load*)
Dimensions:	229½ × 28½ × 9 feet
Guns:	2—4·1 inch, 1—37 mm. AA., 8—20 mm. AA.
Machinery:	Bersig reciprocating. 2 shafts. I.H.P.: 3,500 = 18·3 kts.
Boilers:	2 Wagner
Fuel:	125 tons

Notes.—All launched 1937-42. *T 911, 913, 914, 915, 916, 920, 924* in Black Sea, others in Baltic.

2 Ex-Finnish Type.



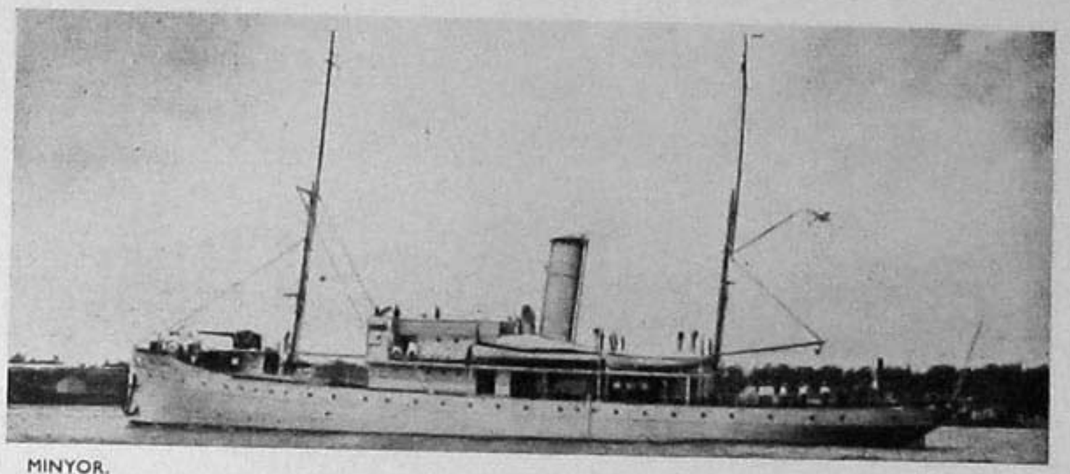
PIONEER.

1949.

PIONEER (ex-*Korshun*)

Displacement:	410 tons
Dimensions:	170½ (*o.a.*) × 24½ × 11 feet
Guns:	2—3·9 inch, some small AA.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 1,400 = 15 kts.
Boilers:	2 cylindrical
Coal:	70 tons

Notes.—Launched 1916. Escort vessel officially rated as minesweeper. Sister ship of Finnish *Hameenmaa*. In Baltic.



MINYOR.

courtesy M. J. Meister.

MINYOR (ex-*Yastreb*, ex-Finnish *SS Bore I*)

Launched:	1913
Displacement:	350 tons
Dimensions:	164 × 23 × 9½ feet
Guns:	2—3·9 inch, 60 cal., 1—37 mm. AA.
Mines:	70
Speed:	13 kts.

Notes.—Taken over by Imperial Russian Navy, 1916. Escort vessel fitted for minelaying and minesweeping. Officially rated as minesweeper. In Baltic.

Fleet Minesweepers—*continued.*

Ex-Japanese Type.

Ex-No. 23 **Ex-No. 20**

Displacement :	755 tons
Dimensions :	238 × 25¾ × 8½ feet
Guns :	2—3·9 inch, 2 M.G.
Machinery :	Turbines. 2 shafts. S.H.P. : 3,650 = 20 kts.
Boilers :	2 coal- and oil-fired

Notes.—Former Japanese. Launched 1940.

Ex-No. 12

Launched :	Feb. 18, 1939.
Displacement :	630 tons
Dimensions :	226 × 25¾ × 7¾ feet
Guns :	3—4·7 inch, 2 M.G.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 3,850 = 20 kts.
Boilers :	3 Kampon, coal-fired

Note.—Former Japanese.

Ex-No. 17

Builders :	Osaka.
Launched :	3 Aug. 1935.
Displacement :	707 tons
Dimensions :	238 × 26 × 8½ feet
Guns :	2—3·9 inch, 2 M.G.
Machinery :	Turbines. 2 shafts. S.H.P. : 3,200 = 19 kts.
Boilers :	2 coal and oil-fired

Note.—Former Japanese.

34 American Type.

Ex-ADMIRABLE	**Ex-ASTUTE**	**Ex-FANCY**
Ex-ADOPT	**Ex-AUGURY**	**Ex-INDICATIVE**
Ex-ADVOCATE	**Ex-BARRIER**	**Ex-MARVEL**
Ex-AGENT	**Ex-BOMBARD**	**Ex-MEASURE**
Ex-ALARM	**Ex-BOND**	**Ex-METHOD**
Ex-ALCHEMY	**Ex-CANDID**	**Ex-MIRTH**
Ex-APEX	**Ex-CAPABLE**	**Ex-NUCLEUS**
Ex-ARCADE	**Ex-CAPTIVATE**	**Ex-PALISADE**
Ex-ARCH	**Ex-CARAVAN**	**Ex-PENETRATE**
Ex-ARMADA	**Ex-CAUTION**	**Ex-PERIL**
Ex-ASPIRE	**Ex-DISDAIN**	**Ex-RAMPART**
Ex-ASSAIL		

Displacement :	625 tons (900 tons *full load*)
Dimensions :	180 (*w.l.*), 184½ (*o.a.*) × 33 × 9½ feet
Guns :	1—3 inch D.P., 2—40 mm. AA., 6 —20mm. AA.
Machinery :	Diesel. B.H.P. : 1,900 = 16 kts.
Complement :	104

Note.—All launched 1942. Acquired during 1943.

29 Ex-German Type.

T 708. 1948.

Type 11. T 701-729 (ex-German *M* 265, 267, 279, 291, 324, 330, 341, 342, 348, 369, 377, 386, 401, 405-407, 411, 415, 423, 425, 431, 443, 446, 456, 461, 467, 470, 484, 496).

Displacement :	551 tons (784 tons *full load*)
Dimensions :	202 × 28 × 9 feet
Guns :	1—4·1 inch, 1—37 mm. AA., 10—20 mm. AA.
Machinery :	Reciprocating, with exhaust turbine. 2 shafts. I.H.P. : 2,150 = 16·7 kts.
Boilers :	2 modified Schulz
Coal :	142 tons

Notes.—All launched 1941-44. Six boats in Black Sea. Majority in Baltic. One mast.

40 " Fugas " Class.

PODSEKATEL. 1948.

BUI	**MINA**	**STRELA**
CHEKA	**MINREP**	**TRAL**
GAFEL (T 205)	**PARAVAN**	**TROSS**
GAK (T 210)	**PATRON**	**UDARNIK**
GARPUN	**PLAMYA**	**VYEKHA**
GRUZ	**PODSEKATEL**	**VERP**
ISKATEL	**PROVODNIK**	**VZRYF**
KAPSULJ	**RYM** (T 211)	**YAKORJ**
KONTERADMIRAL KHOROSHKHIN	**SHKIV**	**ZAPAL**
KRAMBOL	**SHPILL** (T 207)	**ZARAYD**
MATROS	**SHTCHIT**	and others

Displacement :	441 tons (540 tons *full load*)
Dimensions :	187 (*pp.*), 203 (*o.a.*) × 23½ × 7¾ feet
Guns :	1—4 inch, 2—37 mm. AA.
Mines :	40
Machinery :	Diesel. 2 shafts. B.H.P. : 2,800 = 18 kts.
Oil fuel :	96 tons
Complement :	55

Notes.—Fitted for minelaying and minesweeping. T 205, 207, 210, 211, 215, 217, 218, 219 in Baltic. Built in two series 1935-36, 1941-44. Reported to be good sea boats, very handy and effective in minesweeping. " *Yokorj* " means "Anchor." *Fugas* (201), 202, 203, 204, 206, 208, 209, 212, 213, 217 and *Vzryvotel*, war losses.

T 401-420 (*ex-P.S.K.* 1-20).

Notes.—P.S.K. (*Pogranitchni Storoshevoi Korably*—frontier patrol vessel) were built as coast-guard vessels. Taken over by Navy 1940 and fitted for minesweeping. Differ slightly from *Fugas* boats. All in White Sea. Round stern as opposed to square stern of *Fugas* type

Coastal Minesweepers.

100 " T 301 " Class.

T 371 Class. *Added* 1949.

T 371 Series

Displacement:	130 tons
Dimensions :	100 × 16 × 4½ feet
Guns :	2—20 mm. AA., 4 M.G.
Machinery :	Diesel. B.H.P. : 480 = 10 kts.
Complement :	30

Note.—Same type as Polish "Albatros " class. T 341, 356, 376, 442, 459, 460 and others.

Coastal Minesweepers—*continued.*

12 American Type.

T 182. 1948.

Ex-YMS 447	**Ex-YMS 455**	**Ex-YMS 460**	**Ex-YMS 465**
Ex-YMS 448	**Ex-YMS 456**	**Ex-YMS 462**	**Ex-YMS 466**
Ex-YMS 453	**Ex-YMS 457**	**Ex-YMS 464**	**Ex-YMS 469**

Displacement :	215 tons
Dimensions :	136 × 24½ × 6 feet
Guns :	1—3 inch d.p., 2—20 mm. AA., 2 D.C.T.
Machinery :	Diesel. B.H.P. : 1,000 = 12 kts.
Oil fuel :	16 tons

Notes.—Launched 1943. All acquired in 1945. T 181-T 186 in Baltic.

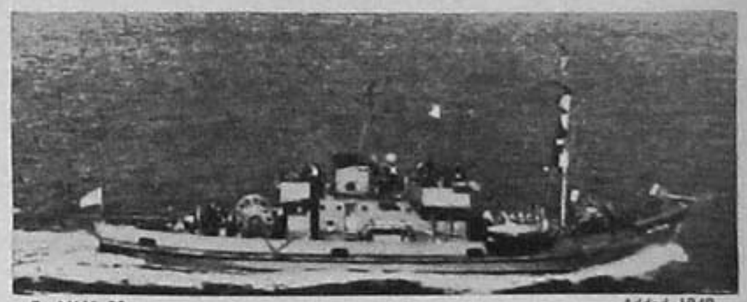
12 British Type

Ex-MMS 1005	**Ex-CEDAR LAKE**	**Ex-PINE LAKE**
Ex-MMS 1023	**Ex-ELM LAKE**	**Ex-POPLAR LAKE**
Ex-ALDER LAKE	**Ex-HICKORY LAKE**	**Ex-SPRUCE LAKE**
Ex-BEECH LAKE	**Ex-LARCH LAKE**	**Ex-WILLOW LAKE**

Displacement :	360 tons
Dimensions :	126 (*pp.*), 140 (*o.a.*) × 26 × 10½ feet
Guns :	2—40 mm. AA., 2—20 mm. AA.
Machinery :	Diesel. B.H.P. : 500 = 10 kts.

Notes.—Launched 1944-45. Built in Canadian shipyards on " Mutual Aid " account, and delivered 1945-46. Ex-*MMS* 1005, 1023 acquired from Great Britain.

3 British Type.



Ex-MMS 90. *Added* 1948.

Ex-MMS 90	**Ex-MMS 203**	**Ex-MMS 212**

Displacement:	250 tons
Dimensions :	105 (*pp.*), 119 (*o.a.*) × 23 × 9½ feet
Guns :	2—20 mm. AA., etc.
Machinery :	Diesel. B.H.P. : 500 = 10 kts.
Complement :	20

Note.—Acquired from Great Britain.

173R

Coastal Minesweepers—*continued.*

50 German Type.

Ex-R 302, R 303, R 305, R 307 R 308, R 310, R 311, R 312.

Displacement : 177 tons
Dimensions : 134½ × 19½ × 6 feet
Guns : 1—37 mm. AA., 3—20 mm. AA.
Machinery : Burmeister & Wain Diesel. B.H.P. : 3,178 = 23 kts.

1939, *Dr. Erich Groner.*

Ex-R 149 **R 234** **R 245** **R 257** **R 262** **R 264** **R 288**
R 238 **R 254** **R 258** **R 265** **R 270** **R 289** **R 409-453**

Displacement : 145 tons (R 149 155 tons)
Dimensions : 128½ × 18½ × 5 feet
Guns : 3—20 mm. AA.
Machinery : M.A.N. Diesel. B.H.P. : 2,500 = 21 kts.

Ex-R 53, 58, 63, 65, 87, 90, 103, 105, 107, 113, 122, 124.

Displacement : 125 tons
Dimensions : 124 × 19 × 5 feet
Guns : 3—20 mm. AA.
Machinery : Diesel. 2 shafts. B.H.P. : 1,800 = 20 kts.
Complement : 20

Notes.—Launched 1939-41. Wood.

Ex-R 28. *Added* 1948.

Ex-R 23 **Ex-R 28**

Displacement: 115 and 110 tons
Dimensions: 116 × 16½ × 5½ feet
Guns: 1—20 mm. AA.
Machinery: M.A.N. Diesels. 2 shafts. B.H.P.: 1,800 = 18 kts.
Complement: 16

Notes.—Launched 1937. Wood.

5 "N" Type.

N 1 **N 2** **N 3** **N 4** **N 5**

Displacement: 200 tons
Guns: 1—3 pdr., 1 M.G.
Machinery: Diesel engines
Speed: 16 kts.

Note.—Launched 1934-35.

Minelayers.

Added 1953, *Hajime Fukoyo.*

Ex-KAMISHIMA

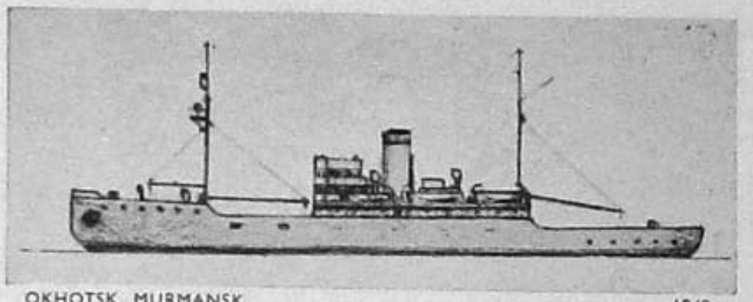
Builders : Sasebo
Laid down : 20 Feb. 1945
Launched : 12 June 1945
Completed : 30 July 1945
Displacement : 766 tons *standard* (800 tons *full load*)
Dimensions : 228 (p.p.), 240½ (w.l.), 244½ (o.a.) × 25½ × 8½ feet
Guns : 2—40 mm. AA., 13—25 mm. AA., ·36 D.C. (original armament).
Mines : 120
Machinery : 2 Diesels. B.H.P. : 1,900 = 16·5 kts.

Notes.—Former Japanese light minelayer. To meet the urgent requirement to lay mines along the Japanese coast this type was built very hurriedly, being designed with simple hull without camber or sheer, except at bow, and hexagonal section funnel.

ARGUN

Launched : 1939.
Displacement: 4,200 tons
Dimensions: 318½ × 46 × 18 feet
Guns: 4—5·1 inch, 3—3 inch, 4—37 mm. AA., 3 M.G.
Mines: 800
Machinery: Triple expansion. 2 shafts. I.H.P.: 1,550 = 11 kts

Note.—In Far East.



OKHOTSK, MURMANSK. 1949.

OKHOTSK

Launched: 1938.
Displacement: 3,200 tons
Dimensions: 265½ × 42½ × 18¼ feet
Guns: 3—5·1 inch, 2—3 inch, 2 M.G.
Machinery: Triple expansion. 2 shafts. I.H.P.: 2,400 = 14 kts.
Complement: 160

Note.—In Far East.

MURMANSK

Launched: 1937.
Displacement: 3,000 tons
Dimensions: 266 × 42½ × 15½ feet
Guns: 3—5·1 inch, 4—3 inch
Mines: 150
Machinery: Triple expansion. 2 shafts. I.H.P.: 2,400 = 14 kts.

Note.—In White Sea.

Minelayers—*continued.*

URAL (*ex-Felix Dzenzhinski*)

Launched : 1929
Displacement : 2,800 tons
Dimensions : 331½ × 48 × 25½ feet
Guns : 4—3·9 inch, 2—37 mm. AA., 4 M.G.
Speed : 12 kts

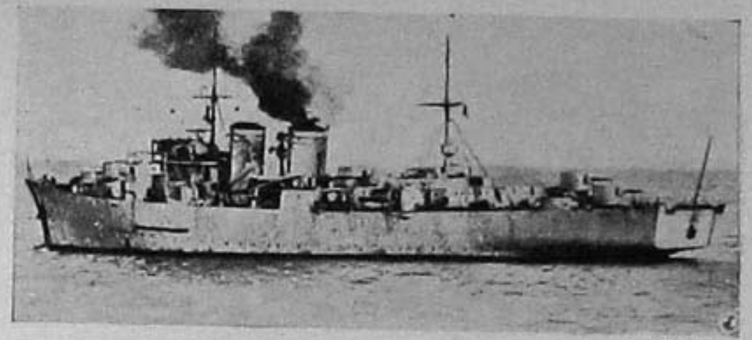
Notes.—Now used as a training ship.

VOROSHILOVSK

Displacement: 2,300 tons
Dimensions: 302 × 40 × 16½ feet
Guns: 4—3 inch, 2 M.G.
Mines: 400
Machinery: Triple expansion. I.H.P.: 750 = 9 kts.
Coal: 630 tons
Complement: 160

Ex-KATASHIMA

Launched: Feb., 1917
Displacement: 420 tons
Dimensions: 150 × 25 × 7½ feet
Machinery : I.H.P.: 600 = 12 kts.



Added 1948.

MARTY (*ex-Shtandart*)

Builders: Copenhagen.
Launched: 4 Aug., 1896.
Displacement: 5,980 tons (6,900 tons *full load*)
Dimensions: 370½ (*w.l.*), 400 (*o.a.*) × 50½ × 20 (*mean*), 22 (*max.*) feet
Guns: 4—5·1 inch, 55 cal., 7—3 inch, 3—45 mm. AA., 3 M.G.
Mines: 500
Armour: 2" deck
Machinery: Geared turbines. 2 shafts. S.H.P.: 11,500 = 20 kts.
Boilers: 4 Yarrow
Oil fuel: 930 tons
Complement: 400

Notes.—This ship is the former Imperial yacht, laid down at Copenhagen in 1893, and re-engined and rebuilt as a minelayer at Leningrad in 1935-7. Refitted at Rostock yard, Russian occupation zone of Germany, winter 1948-49. Now used as a training ship

Mining Tenders.

MU 50 **MU 51** **MU 52** **MU 53** **MU 54**

Displacement: 180 tons
Guns: 1 M.G.
Machinery: Diesel
Speed: 12 kts.

Notes.—Launched 1936-38. Are attached to Mining School as Tenders.

1 British Type.

SHIKA

Launched : 1929
Measurement : 251 tons gross

Note.—Ex-whaler fitted for minesweeping, and lent by Great Britain in 1942.

Motor Torpedo Boats.

Notes.—Total about 460. Ships of the "Marine Border Guard": pendant designations as follows:—
MO (Morskoy Okhotnic) MTB type vessels (Sea Hunter)
SK (Storoyzhevoy Kater) MTB and U.S. SC type (Guard Cutter)
PK (Pogranichnyy Kater) MTB type including PK 14 (Border Cutter)

26 German Type.

1948.

Ex-S 50.

Ex-S 50, 65, 81, 82, 86, 99, 101, 109, 110, 113, 118, 123, 132, 135, 175, 204, 209, 211, 214, 219, 222, 227, 704, 707-709

Displacement:	92 tons (113 tons *full load*)
Dimensions:	114½ × 16 × 7 feet
Guns:	1—40 mm. AA., 2—20 mm. AA.
Tubes:	2—21 inch (4 torpedoes)
Machinery:	Mercedes Diesels. 3 shafts. B.H.P.: 7,500 = 41 kts.
Oil fuel:	20 tons

Notes.—Launched 1939-44. Wood.

4 German Type.

Added 1948.

Ex-S 11.

Ex-S 11, 12, 16, 24.

Displacement:	62 tons (76 tons *full load*)
Dimensions:	113 × 14 × 4 feet
Guns:	1—20 mm. AA., 2 M.G.
Tubes:	2—21 inch
Machinery:	Benz Diesels. 3 shafts. B.H.P.: 3,960 = 33 kts.
Oil fuel:	14 tons

Notes.—Launched 1934-39. Wood.

Italian Type.

Added 1952, *Lieut. Aldo Fraccaroli.*

Notes.—There are still some units of Italian design, as illustrated above. Machinery also of Italian design. Distributed between Baltic, Black Sea, and Far East. Distinctive numbers are painted on C.T.s.

Motor Torpedo Boats—*continued.*

150 American Type.

A 1-150 (ex *PT* **85-87, 89, 197, 265-276, 289-294, 400-504, 506-508, 510-521, 552-556, 560-563, 661-687, 731-760**; ex-*RPT* **1-5, 11**; and ex-*RPT* **53-60**). Of two types as follows:

77 boats:

Displacement:	55 tons
Guns:	2—20 mm. AA.
Tubes:	4—21 inch
Speed:	42 kts.

Notes.—Launched 1942-44. 77 boats ex-American Vosper 70 ft. design.

73 boats:

Displacement:	44 tons
Guns:	2—20 mm. AA., 2 M.G.
Tubes:	2—21 inch
Speed:	40-44 kts.

Notes.—Launched 1942-44. 73 ex-American built by Elco.

Russian Sha 4 Type.

Added 1952, S. F. courtesy M. J. Meister.

Added 1940.

Marti Type

Displacement:	11 tons
Armament:	2 torpedoes
Speed:	42 kts.

Notes.—Built at Leningrad. Launched 1937.

Submarine Chasers.

Notes.—Total about 350. Official classification, Morskiye Okhotniki—"Sea Hunters".

36 American Type.

Ex-RPC 1-49

Notes.—Are of U.S. PC Type, but it seems that only 36 were delivered to Russia.

1 Japanese Type.

Ex-No. 28.

Launched: 1940

Displacement:	460 tons
Dimensions:	167½ (*o.a.*) × 22 × 9 feet
Guns:	1—3·1 inch AA., 3—25 mm. AA., 1—13 mm. A.A., 36 D.C.
Machinery:	Diesels. 2 shafts. B.H.P.: 1,700 = 16 kts.

Notes.—Former Japanese. Employed in minesweeping after the war. Delivered to U.S.S.R. at Nakhodoka, Oct. 3, 1947.

Italian Type.

General Note.—Under Italian Peace Treaty, *MS* 52, 53, 61, 65, 75; *MAS* 516, 519-21; *ME* 40; and *VAS* 245, 246, 248 were all to be ceded to Soviet Navy. *VAS* 245 delivered 30 June, 1949. *MS* 52, 61, 65, 75, *MAS* 516, 519, *ME* 40 also delivered.

Motor Gunboats.

Added 1951.

1125 Type.

Displacement:	42 tons standard
Dimensions:	82 × 12½ × 3 feet
Guns:	2—12 pdr. (3 inch), 1 AA. M.G. (6 in some)
Speed:	25 kts.

Note.—The two twelve-pounders are in tank-type turret (see photo).

4 Dutch Design.

Ex-RA 102 **Ex-RA 103** **Ex-RA 104** **Ex-RA 105**

Displacement:	55 tons
Machinery:	Diesel

Notes.—Launched 1940. Built at Semwerder. Wood.

Motor Launches.

1942, *Official.*

There are over 120 armoured motor launches in the Baltic of 8 different types, including the following:—

	Displacement	Dimensions	Guns	Speed
(a)	42 tons	82 × 13 × 2½ feet	2—3 inch, 6 M.G.	28 kts.
(b)	26 ,,	75½ × 11½ × 1½ ,,	1—3 inch, 5 M.G.	20 ,,
(c)	25 ,,	75½ × 10½ × 2½ ,,	1—3 inch	16 ,,
(d)	20 ,,	68½ × 10½ × 3½ ,,	2—3 inch	21 ,,
(e)	18 ,,	52½ × 10 × 2½ ,,	1—3 inch	19 ,,

Notes.—Many others exist, of which the photo above is an example, including vessels of 18, 20, 23, 25, 26, 42, 56, and 61 tons, usually armed with 1 or 2—3 inch guns and varying numbers of M.G. Mostly they are known by numbers, prefixed by various letters, including BK, BM, K, MKM, MO, N, SN, TK, and ZK.

No. 201. 1941, *Official.*

Nos. 201-212.

Displacement: 30 tons
Guns: 2—47 mm.
Speed: 25 kts. or more

Notes.—Motor vessels, similar to Finnish VMV type. Launched: 1937-38.

Motor Launches—*continued.*

46 "SC" Type.

Ex-SC 1075. *Added* 1948.

BO 1-46 (ex SC 719-721, 1073-1076, 1283-1287, 1475-1493, 1496-1499, 1502-1508, 1510-1512, 1517

Displacement: 95 tons
Dimensions: 107½ (*w.l.*), 111 (*o.a.*) × 17 × 6½ feet
Guns: 1—40 mm. AA., etc.
Machinery: 2 sets Diesels. 2 shafts. B.H.P. : 800 = 15 kts.
Complement: 28

Notes.—BO (Bolshoy Okhotmk) U.S. Navy SC type including BO 315 and BO 328. (Large Cutter).

24 "PTC" Type.

PTC type. 1948.

M Series (ex-*PTC* 37-60).

Displacement: 24 tons *full load*
Dimensions: 59 (*w.l.*), 63 (*o.a.*) × 15¼ × 3¼ (*max.*) feet
Guns: 1—20 mm. AA., 2 M.G.
Machinery: Hall-Scott motors. 2 shafts. S.H.P.: 650 = 28 kts.
Complement: 10

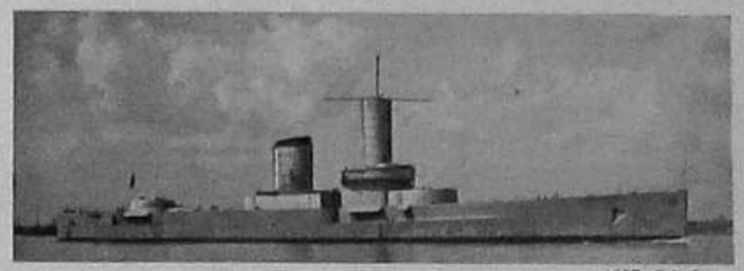
Notes.—First loaned to Great Britain and subsequently transferred to Russia.

Trawlers.

Note.—36 Trawlers were allotted to Soviet Navy in division of surrendered German tonnage.

Target Service Ships.

1 Ex-Battleship.



1937, *Schafer.*

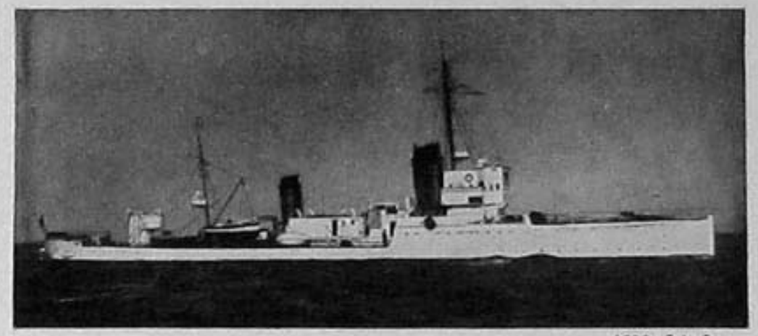
Ex-**HESSEN**

Builders: Germania, Kiel.
Launched: 18 August, 1903.

Displacement: 13,800 tons
Dimensions: 419 × 73 × 23½ feet
Machinery: Triple expansion. I.H.P.: 16,000 = 18 kts.

Notes.—Former German battleship. Reconstructed 1936-37 as a wireless-controlled target ship. Oil fuel and automatically fired boilers of Schultz type. Equipment includes special smoke-screen apparatus.

1 Ex-Torpedo Boat.



1939, *Schafer.*

VISTREL (ex-*Blitz*, ex-*T* 185, ex-*V* 185)

Builders: Vulkan.
Launched: 1910.

Displacement: 800 tons
Machinery: Curtis turbines
Speed: 20 kts.

Notes.—Former German torpedo boat, used for wireless target control of ex-Hessen.

"Target Class"

KHORYOK	KUNITZA	LASKA	VYDRA
Displacement :	185 tons		
Guns :	1—3 inch, 50 cal., 2 M.G.		
Speed :	12 kts.		

Notes.—All built at Petrograd as target service vessels. Launched 1914-15. Transferred during Russian civil war ,1918-21 through canals and Volga river to Caspian Sea. Tug type.

River Monitors.

(Ex-Roumanian Danube Flotilla).

BUCOVINA (*ex-Austro-Hungarian Sava*)

Launched :	1915
Displacement :	541 tons
Dimensions :	190½ × 33½ × 4½ feet
Guns :	2—4·7 inch, 45 cal. Skoda (paired in single turret forward) + 2—4·7 inch, 10 cal. howitzers (fortress type, singly mounted in pits with cupola protection), 2—66 mm., (AA. twin-mounted in turret), 2—47 mm., and 6 M.G.
Armour :	1½" belt and bulkheads, 1" deck, 2" C.T., 2" turret and cupolas.
Machinery :	Triple expansion. I.H.P. : 1,600 = 12 kts.
Boilers :	Yarrow
Oil fuel :	75 tons
Complement :	90 to 100

General Notes.—Built at Budapest under 1914-15 Austro-Hungarian Naval Programme, completed 1915. 1—24 inch searchlight, 3 magazines. Interned at Novi Sad, 1919-20, and handed over by Yugo-Slavs at Orsova early in 1921. Named after Roumanian province acquired after the war of 1914-18.

Appearance Notes.—Now has 2 white bands around funnel and flush deck forward.

BASARABIA (*ex-Austro-Hungarian Inn*)

Launched :	1915
Displacement :	530 tons
Dimensions :	203½ × (o.a.) × 34½ × 4½ feet
Guns :	2—4·7 inch, 45 cal. + 3—4·7 inch, 10 cal. howitzers, 2—47 mm., 9 M.G.
Armour :	1½" belt and bulkheads, 1" deck, 2" turret and cupolas, 2" C.T.
Machinery :	Triple expansion. I.H.P. : 1,500 = 12 kts.
Boilers :	Yarrow
Oil fuel :	70 tons
Complement :	100

Notes.—Built at Budapest under Austro-Hungarian 1912 Naval Programme ; interned at Novi Sad, 1919-20, and handed over by Yugo-Slavs at Orsova early in 1921. Named after Roumanian province acquired after the war of 1914-18.

ION C. BRĂTIANU

Launched :	1907
Displacement :	670 tons
Dimensions :	208½ × 33½ × 5½ feet
Guns (Skoda) :	3—4·7 inch, 35 cal., 1—3 inch AA., 2—47 mm., 2 M.G.
Armour :	1½" belt, 1" deck, 3"—2" turrets
Machinery :	Triple expansion. I.H.P. : 1,800 = 13 kts.
Coal :	60 tons
Complement :	110

Notes.—Built by Stabilimento Tecnico Triestino, at Trieste, in sections, re-erected at Galatz. Has 1—30·7 inch searchlight. Named after a nineteenth-century Roumanian statesman. Was the heaviest armoured ship on the Danube.

ARDEAL (*ex-Austro-Hungarian Temes*)

Launched :	1904
Displacement :	443 tons
Dimensions :	183½ × 31½ × 3½ feet
Guns :	2—4·7 inch, 35 cal., 1—3·5 inch AA., 2—47 mm., 4 M.G.
Armour :	1½" belt, 3" and 1½" turrets, 1½" bulkheads, 1" deck
Machinery :	Triple expansion. I.H.P. : 1,400 = 10 kts.
Fuel capacity :	60 tons
Complement :	80 to 90

General Notes.—Built at Budapest as Austro-Hungarian *Temes*, and was sunk in October, 1914, but was raised in June, 1916, and entirely rebuilt 1916-17. Re-entered service April 1917. Interned at Novi Sad, 1919-20 ; handed over at Orsova by Yugo-Slavs early in 1921. Named after Roumanian province acquired after the war of 1914-18. *Ardeal* is the Roumanian name for the province of Transylvania.

Appearance Notes.—Easily identified by her tall, thin funnel and raised gun aft, mounted during reconstruction, 1916-17. No other monitor exists with this arrangement.

River Monitors—*continued.*

KHAZAN **UDARNI** **and two others**

Displacement :	1,900 tons
Dimensions :	238 × 39 × 10 feet
Guns :	4—5·1 inch 4—3 inch, 6—47 mm.
Machinery :	4 sets Diesels. B.H.P. : 3,200 = 15 kts.

Note.—Amur Flotilla. *Udarni* doubtful.

LENIN (*ex-Shtorm*) **KRASNIVOSTOK** (*ex-Viyuga*)
SUN-YAT-SEN (*ex-Shkval*) **CHICHERIN** (*ex-Vikhr*)
SVERDLOV (*ex-Ouragan*)

Displacement :	965 tons
Dimensions :	242½ × 39½ × 6½ feet
Guns :	2—5·9 inch, 4—4·7 inch, 4—37 mm.
Armour :	4½" turrets
Machinery :	4 sets Diesels. B.H.P. : 3,000 = 15 kts.
Oil fuel	100 tons
Complement :	104

Notes.—Launched 1910. Amur Flotilla. Two single (5·9) and two twin (4·7) turrets.

S. M. KIROV **I. V. STALIN**

Guns : 6—5·9 inch, 1—3 inch, 4—37 mm.

Note.—Amur Flotilla. Names doubtful.

KRASNI AZARBAIJAN (*ex-Trotsky, ex-Ardagan*) **LENIN** (*ex-Kars*)

Displacement :	700 tons
Dimensions :	203 × 28½ × 9½ feet
Guns :	3—4 inch, 2—45 mm. AA., 2—37 mm. AA., 4 M.G.
Machinery :	Diesel. B.H.P. : 2,200 = 11 kts.
Complement :	126

Notes.—Launched 1909. Both in Caspian Sea.

Auxiliary Gunboats.

MOSKVA and 2 others

Displacement:	1,500 tons
Guns:	2—5·1 inch forward, 1—2·75 inch aft

Notes.—Very shallow draught. Laid down 1939–40. Launched 1940. Auxiliary gunboats, German built former dredgers.

"KRAS" class. *Added 1951, courtesy M. J. Meister*

KRASNAYA ABKHASIA **KRASNAYA GRUZIA**
KRASNAYA ARMENIA (*ex-Krasni Krim*) **KRASNI AJARISTAN**

Displacement :	1,100 tons
Dimensions :	Draught: 3 feet forward, 9 feet aft
Guns :	2—5·1 inch, 2—3 inch AA., 2 M.G. (some reported to mount 3—5·1 inch)
Mines :	248
Machinery :	Triple expansion. I.H.P. : 640 = 9 kts.
Oil fuel :	150 tons

Notes.—Launched in 1916. In Black Sea. Though they are fitted for minelaying they are not specially built minelayers, but auxilliary gunboats—converted landing vessels armed with guns during the Russian civil war 1918-22.

River Gunboats.

AKTIVNI

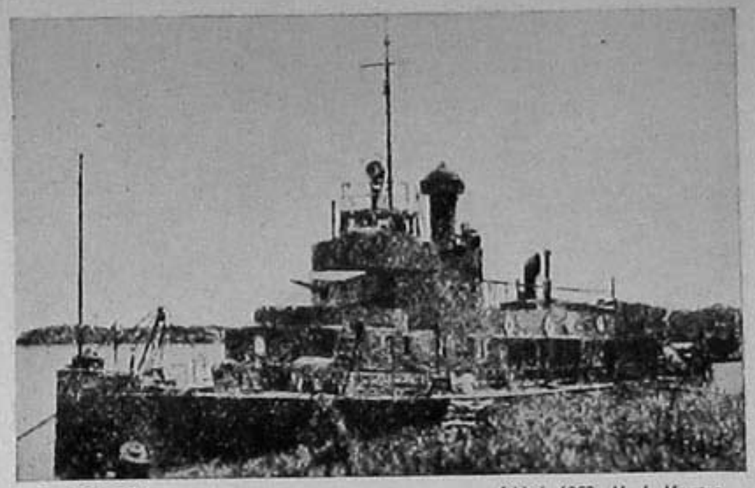
Displacement	750 tons
Dimensions :	236 × 27 × 5½ feet
Guns :	2—4 inch, 4—45 mm. A.A, 6 M.G.
Machinery :	2 sets Diesels. B.H.P. : 1,600

Note.—Amur Flotilla.

ZHELYEZNYAKOV

Displacement	240 tons
Dimensions :	157½ × 25 × 4½ feet
Guns :	2—4 inch, 3—45 mm. AA., 2—37 mm. AA.
Machinery :	2 sets Diesels. B.H.P. : 300

Note.—Danube Flotilla.



Ex-MONGOL. *Added, 1952, M. J. Meister.*

Ex-**BIENDOTA** (*ex-Vogul*) **KRASNIBURIAT** (*ex-Buriat*)
KRASNIMONGOL (*ex-Mongol*) Ex-**RABOTCHI** (*ex-Kiryiz*)
KRASNIMORYAK (*ex-Korel*) **TREVOGA** (*ex-Votyak*)

Displacement :	190 tons
Dimensions :	164 × 27 × 2 feet
Guns :	2—3 or 4·7 inch, 1—4·8 inch (122 mm.) howitzer, 2 M.G.
Machinery :	H.P. : 500 = 11 kts.
Fuel :	145 tons

Notes.—Launched 1907. Amur Flotilla. If still in service have been renamed. The majority of the river flotilla of the former Manchurian Navy is believed to be in Soviet hands.

NADEZMNI (*ex-Drochanin*)

Note.—Similar to above.

KERTCH **SULINA**

Note.—Danube Flotilla.

Coastguard Vessels.

DOSORNI **RAZVYEDTCHIK**

Displacement :	100 tons *standard*
Guns :	1—37 mm. AA.

Notes.—Launched 1904. Still in service in Baltic. Former tenders to Imperial yachts, now serving as coastguard patrol vessels.

Aircraft Tenders.

FALKE

Builders: Stülkenwerft
Launched: 1942
Displacement: 2,040 tons
Dimensions: 322½ × 46 × 6½ feet
Machinery: 2 shafts. H.P.: 1,800 = 12 kts.

Notes.—Ex-German. Equipped with a catapult. In Baltic.

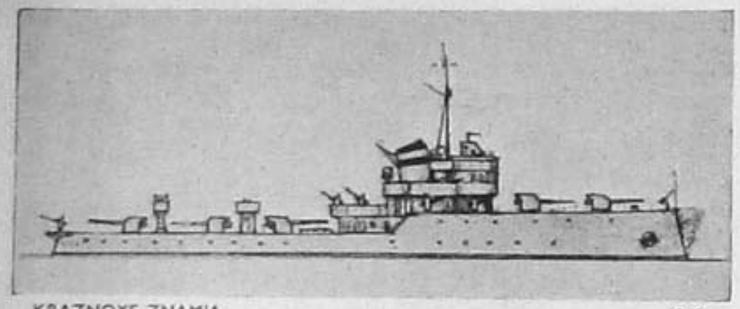
1948.

KODOR (ex-*Gunter Pluschow*)

Builders: Norderwerft, Hamburg.
Completed: 14 Apr., 1935.
Displacement: 375 tons
Dimensions: 176½ × 27½ × 8½
Machinery: Diesels. 2 shafts. B.H.P.: 3,200 = 19 kts.
Oil fuel: 50 tons
Radius: 4,500 miles at 15 kts.
Complement: 30

Notes.—Ex-German aircraft tender acquired and renamed. In Black Sea.

M.T.B. Tender.



KRAZNOYE ZNAMIA. 1949.

KRASNOYE ZNAMYA (ex-*Khrabri*)

Launched: 21 Nov. 1895
Displacement: 1,740 tons
Guns: 5—5·1 inch, 55 cal., 3—45 mm. AA.
Armour: 5" belt, 1" deck, 1" C.T.
Machinery: Triple expansion. I.H.P.: 2,100 = 14 kts.
Oil fuel:
Boilers: 6

Notes.—Serving as flagship of Rear-Admiral commanding MTB Flotillas, Baltic. Hull of extremely strong construction. Excellent sea-boat. Represents an extraordinary concentration of power in small man of war. Three times rebuilt and rearmed. Sunk by Finnish MTB in the battle of Lavansaari, Gulf of Finland, autumn 1942, salved by Russians, repaired and entirely rebuilt, ram removed, large modern bridgework, light tripod mast, large streamlined funnel added.

Surveying Vessels.

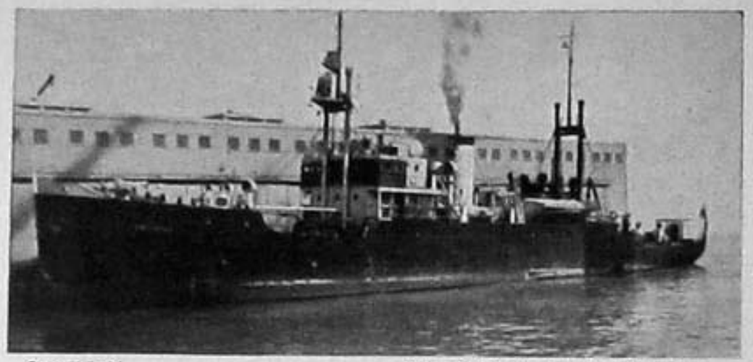
OKEAN **OKHOTSK**
Displacement: 1,500 tons
Speed: 15 kts.

SJUD **WEST** **OST**
Displacement: 640 tons
Dimensions: 187 × 30½ × 12 feet
Guns: 2—3 inch, 4—45 mm. AA., 2 M.G.
Mines: 100
Machinery: 2 sets Diesels. 2 shafts. B.H.P.: 600 = 9 kts.
Fuel. 50 tons
Complement: 100

Notes.—Small icebreakers on surveying duties. All in White Sea. *Nord* lost.

CHUKCHA
Displacement: 2,700 tons
Dimensions: 246 × 43½ × 14 feet
Guns: 2 M.G.
Machinery: Triple expansion. I.H.P.: 900 = 10 kts.
Coal 900 tons
Complement: 55

Note.—In White Sea.



PARTIZAN. *Added 1948, Mr. Matthew Thomlinson.*

PARTIZAN **POLYARNI**
Displacement: 1,300 tons
Dimensions: 210 × 32½ × 11 feet
Guns: 2—4 inch, 2 M.G.
Machinery: Triple expansion. I.H.P.: 700 = 9·5 kts.
Coal: 400 tons
Complement: 80

Notes.—Both launched 1937. In Far East.

LEBEDJ
Displacement: 1,100 tons
Dimensions: 180½ × 29½ × 16 feet
Guns: 1—37 mm. AA., 2 M.G.
Machinery: Triple expansion. I.H.P.: 680 = 12 kts.

Note.—In White Sea.

AZIMUT
Displacement: 1,000 tons
Dimensions: 170 × 30½ × 10 feet
Machinery: 2 sets Diesels. B.H.P.: 600 = 10 kts.
Complement: 45

GALS
Displacement: 540 tons
Dimensions: 121½ × 25 × 11 feet
Machinery: Triple expansion. I.H.P.: 240 = 8 kts.
Coal: 45 tons

Surveying Vessels—*continued.*

BAROGRAF
Displacement: 260 tons
Dimensions: 92 × 19 × 12½ feet
Machinery: Triple expansion. I.H.P.: 425 = 7·5 kts.
Complement: 19

Ex-MEREPOEG
Launched: 1937
Displacement: 90 tons
Speed: 10 kts.

Note.—Ex-Estonian.

GIDROGRAF (ex-*Hydrografs*)
Launched: 1918
Displacement: 600 tons
Speed: 10 kts.

Note.—Ex-Latvian.

KOMPASS
Launched: 1918
Displacement: 415 tons
Speed: 7 kts.

Note.—Ex-Estonian.

Ex-METEOR
Builders: Kaiserliche Werft, Danzig.
Launched: 18 Jan., 1915.
Displacement: 1,200 tons
Dimensions: 219½ × 33½ × 12½ feet
Guns: 1—3·5 inch, 1 M.G.
Machinery: 2 sets 8-cyl. 4-stroke Diesels. 2 shafts. B.H.P.: 2,200 = 14·5 kts.

LOT (ex-*Loed*)
Launched: 1906
Displacement: 265 tons
Speed: 9·5 kts.

Note.—Ex-Estonian.

ZENIT

Note.—Particulars wanted.

Added 1949.

TREFOLYEV
Launched: 1893
Displacement: 1,280 tons
Dimensions: 203 × 36 × 14 feet
Guns: 4—3 inch, 50 cal., 4—3 pdr.
Machinery: Reciprocating. 1 shaft. I.H.P.: 450 = 9 kts.

Notes.—Ex-training ship. Mainmast and bowsprit removed. In Baltic.

Landing Craft.

MZ 778 **MZ 780** **MZ 781**

Note.—Ceded by Italian Peace Treaty. 778, 781 delivered to Russia, 30 June, 1949.

54 of **LCM** type : **30** of **LCI** type : **2** of **LCVP** type : **2** of **LCS** type

Note.—All on loan.

18 *ex-German AF*

5, 10, 11, 14, 20, 26, 27, 33, 42, 46, 65, 74, 77, 79, 80, 81, 100, 102

Displacement : 150 tons
Speed : 10·5 kts.

Note.—All launched 1941-44.

2 *ex-German F type*

1049, 1103

Displacement : 230 tons
Speed : 11 kts.

Note.—Both launched 1944.

46 *ex-German F*

108, 109, 112, 114, 166, 169, 187, 188, 204, 208, 214, 220, 221, 225, 226, 223, 239, 240, 246, 258, 265, 267, 268, 269, 271, 286, 287, 319, 384, 385, 390, 391, 400, 425, 457, 490, 571, 600, 606, 821, 840, 867, 875, 876, 921, 976

Displacement : 165 tons
Speed : 10·5 kts.

Note.—All launched 1941-44.

Boom Defence Vessels.

LADOGA **ONEGA**

Displacement : 530 tons
Dimensions : 185½ × 30½ × 4½ feet
Guns : 3—45 mm. AA., 1 M.G.
Machinery : Triple expansion. I.H.P. : 330 = 8 kts.
Coal : 10 tons
Complement : 50

Repair Ships.

UMBA (ex-*Keret*)

Launched: 1910.

Displacement: 1,400 tons
Dimensions: 195½ (pp.), 200 (o.a.) × 30 × 12 feet
Guns: 5—54 mm. AA., 2 M.G.
Machinery: Triple expansion. I.H.P.: 825 = 10 kts.
Complement: 80

ELBORUS

Displacement: 2,600 tons
Dimensions: 302 × 39 × 13½ feet
Guns: 2—3 inch, 1—45 mm. AA.
Machinery: Diesel-electric. H.P.: 2,800 = 13 kts.
Oil fuel: 180 tons
Complement: 150

Note.—In Black Sea.

Fishery Protection Vessel.

VOROVSKY (ex-*Yaroslavna*, ex-yacht *Lysistrata*)

Builders: Denny, Dumbarton.
Launched: 1900.

Displacement: 3,000 tons
Dimensions: 285 (pp.), 315 (o.a.) × 40 × 18 feet
Machinery: Triple expansion. 2 shafts. H.P.: 3,500 = 18 kts.
Guns: 2—4·7 inch, 2—3 pdr., 2 M.G.
Complement: 100

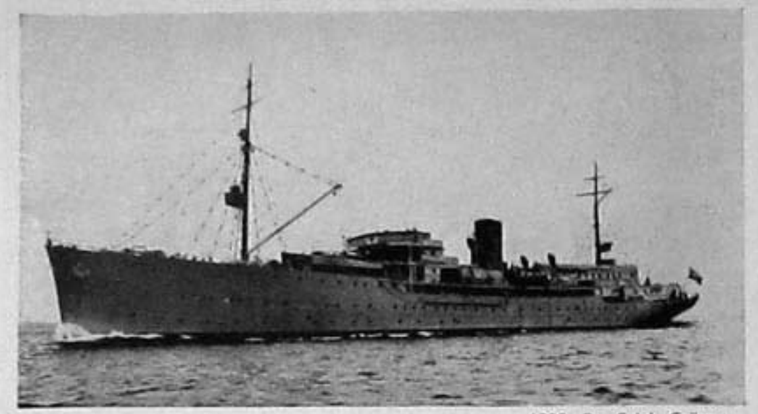
Note.—In Far East.

Training Ships.

PRAKTIKA (ex-*Parsat*) **UTCHOBA** (ex-*Mousson*)

Displacement: 300 tons

Notes.—3 masts. In Baltic. Sailing vessels for training cadets, boys and volunteers.



1939, *Dr. Erich Gröner.*

NYEMAN (ex-*Isar*, ex-*Puma*)

Builders: Bremen-Vulcan.
Launched: 1930.

Displacement: 3,850 tons
Dimensions: 319 × 45½ × 13 feet
Machinery: Triple expansion, 2 shafts. I.H.P.: 2,000 = 12 kts.

Notes.—Converted merchant vessel. Former Depot Ship for submarines. Now Training Ship. In Baltic. *Nyeman* is the name of a river in Western Russia.

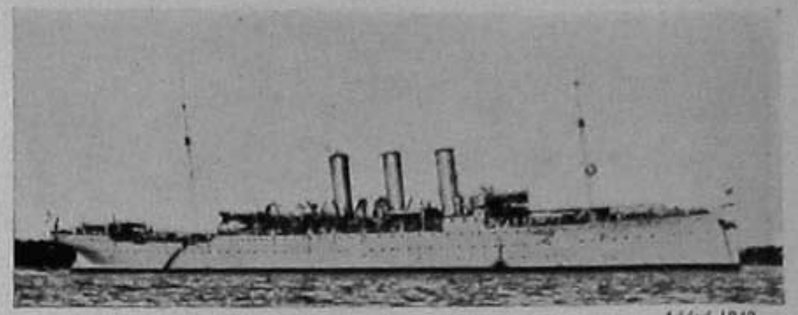
CRISTOFORO COLOMBO, Ex-Z18

Builders: Castellammare.
Launched: 4 Apr., 1928.

Displacement: 2,787 tons
Dimensions: 218 (pp.) × 48½ × 20½ feet
Sail area: 18,700 sq. ft.
Machinery: 2 Tosi Diesels with electric drive to 2 Marelli motors. 2 shafts. H.P.: 1,600 = 10 kts.
Oil fuel: 103 tons
Radius: 6,000 miles at 8 kts.

Notes.—This ship was assigned to Soviet Navy by Italian Peace Treaty. Delivered to Russia, Feb., 1949. In Black Sea.

Training Ships.—*continued.*



Added 1948.

KOMSOMOLYETZ (ex-*Okean*)

Builders: Howaldt Dockyard, Kiel.
Launched: 1902.

Displacement: 11,900 tons *standard*
Dimensions: 468½ × 55½ × 25 feet
Machinery: Triple expansion. 2 shafts. I.H.P.: 11,000 = 18 kts.
Boilers: 4, of different types.
Complement: 289

Notes.—Training ship for engineers and stokers. Still in service in Baltic, and steams well.

AVRORA

Launched: 1900.

Displacement: 6,500 tons
Guns: 10—5·1 inch, 55 cal., 4—3 inch AA.

Notes.—Former cruiser. Still in service as training ship for cadets at Kronstadt. She retains full armament.

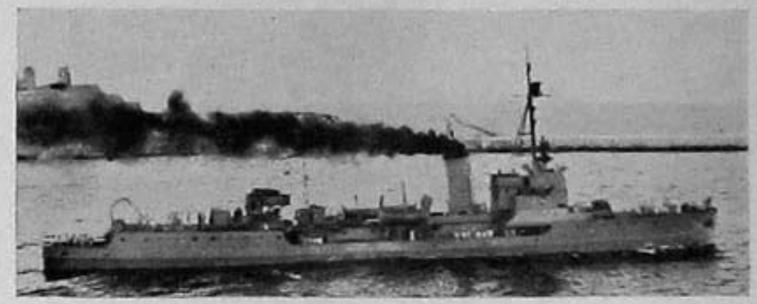
LENINGRAD SOVYET (ex-*Vyerni*)

Launched: 1895.

Displacement: 1,280 tons
Dimensions: 203 × 36 × 13
Guns: 4—3 inch, 50 cal., 4—3 pdr.
Machinery: H.P.: 200 = 9 kts.

Notes.—Sister ship to surveying vessel *Trefolyev*, but with bigger funnel. Navigational training ship in Baltic.

Tenders.



560.

508 ex-*Delphin*, ex-*M 108* **535** ex-*Gazelle*, ex-*Hela*, ex-*M 135*
530 ex-*Fuchs*, ex-*M 130* **560** ex-*Hecht*, ex-*Hille*, ex-*M 60*

Displacement : 350 tons (525 tons *full load*)
Dimensions : 183½ × 24½ × 7½ feet

Notes.—Launched 1918-19. *Delfin* built by Tecklenborg, Geestemuüde. *Fuchs* by Reiherstreg, Hamburg, *Hille* by Seebeck, Geestemuude. Transferred to Russia 1945. Reported ex-*Hela* renamed *Donets*.

Depot Ships.

PAYSHERD (*ex-Otto Wunche*)

Builders: Howaldt, Kiel.
Launched: 1941.

Displacement:	4,730 tons
Dimensions:	433 × 52½ × 14½ feet
Guns:	4—4·1 inch, 2—37 mm., 12—20 mm.
Machinery:	4 diesels, 2 shafts. B.H.P.: 12,400 = 20 kts

Notes.—Ex-German. Name *Paysherd* doubtful.

1948.

ANGARA (*ex-Helo*)

Launched: 1939.

Displacement:	2,300 tons
Dimensions:	323 × 42½ × 11 feet
Guns:	2—4·1 inch, 1—37 mm. AA., 2—20 mm. AA.
Speed:	18 kts.

Note.—In Black Sea.

SMOLENSK

Launched: 1931.

Displacement:	6,000 tons
Dimensions:	314½ (*pp.*), 331 (*o.a.*) × 46 × 19½ feet
Machinery:	Triple expansion. I.H.P.: 1,500 = 11 kts.
Coal:	625 tons
Complement:	130

Note.—In Far East.

1946, *London Studio.*

TEREK (*ex-Elbe*)

Launched: 1931.

Displacement:	1,600 tons
Dimensions:	189 × 27½ × 10½ feet
Guns:	1—3·5 inch, etc.
Machinery:	2 sets Linke-Hofmann-Busch 6-cyl. 4-stroke Diesels. 2 shafts. B.H.P.: 1,600 = 15 kts.
Complement:	45

Note.—Ex-German. In Black Sea.

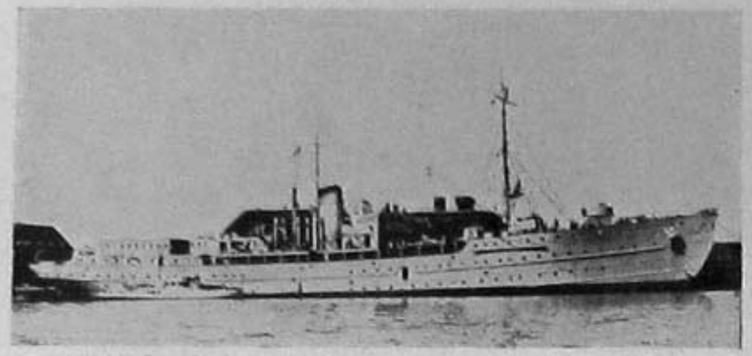
Depot Ships—*continued.*

SMOLNY

Launched: 1929.

Displacement:	4,800 tons *standard*
Dimensions:	331½ × 45½ × 12½ feet
Guns:	5—45 mm. AA.
Machinery:	Reciprocating engines
Speed:	12 kts.

Notes.—Submarine mother ship. In Baltic.



(ex-*Weichsel*, ex-*Syra*).

Builders: Howaldt, Kiel.
Launched: 1923.

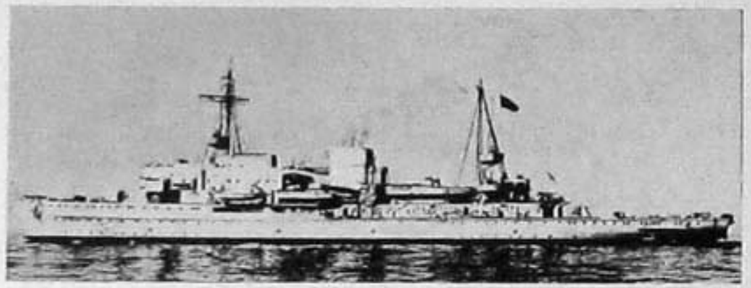
Displacement:	3,974 tons
Dimensions:	309½ × 44 × 13½ feet
Guns:	4—20 mm. AA.
Machinery:	Triple expansion. I.H.P.: 1,400 = 10·5 kts.
Boilers:	2 watertube
Coal:	425 tons
Complement:	135

Notes.—Depot ship for submarines. In Baltic

IRTYSH (*ex-Kronstodt*)

Displacement:	5,800 tons
Dimensions:	328 × 46 × 19½ feet
Guns:	4—3 inch, 3—45 mm. AA., 2 M.G.
Machinery:	Triple expansion. I.H.P.: 1,500 = 12 kts.
Coal:	430 tons
Complement:	240

Note.—Parent ship for submarines in the Baltic.



Ex-ADOLF LÜDERITZ

Displacement:	3,615 tons
Dimensions:	374 × 47½ × 14 feet
Guns:	4—4·1 inch, 2—37 mm., 12—20 mm.
Machinery:	4 diesels. B.H.P.: 12,400 = 20 kts.

Notes.—Was employed by Germans as depot ship for motor torpedo boats. M.T.B. parent ship. In Baltic.

Depot Ships—*continued.*

VOLGA (ex-*Juan Sebastian Eleano*, ex—)

Builders: Echevarrieta and Larrinaga, Cadiz.

Displacement:	9,300 tons
Dimensions:	459 × 56 × 21½ feet
Guns:	2—3 inch, 3—45 mm. AA., 5 M.G.
Machinery:	Parsons turbines, 2 shafts. S.H.P.: 5,500 = 14 kts.
Oil fuel:	1,090 tons
Complement:	260

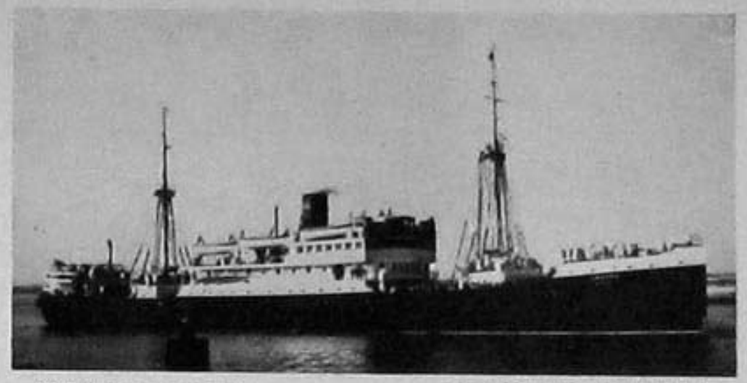
Notes.—In Black Sea. Russian name as merchant ship not known, but probably immediately incorporated in Russian Navy.

NEVA (ex-*Essequibo*)

Launched: 1914.

Displacement:	13,300 tons
Dimensions:	450½ (*pp.*), 466 (*o.a.*) × 57½ × 24½ feet
Guns:	3—3 inch, 6—45 mm. AA., 8 M.G.
Machinery:	Quadruple expansion. I.H.P.: 5,800 = 15 kts.
Oil fuel:	960 tons
Complement:	340

Note.—In Baltic.



SIBIR (before conversion). *Added 1951, courtesy M. J. Meister.*

SIBIR

Measurement:	3,767 tons gross
Dimensions:	493½ × 56 × — feet
Guns:	6—45 mm. AA, 4 M.G.
Machinery:	Triple expansion. 2 shafts. I.H.P.: 3,300 = 12 kts.

Notes.—Converted Russian merchant vessel. Depot ship for M.T.B.s and coastal craft.

PRIMORIE (ex-*Hai Yen*, ex-*Bulga*, ex-*Signal*)

Launched: 1903.

Displacement:	4,000 tons
Dimensions:	262½ × 36 × 14½ feet
Machinery:	Triple expansion. I.H.P.: 940 = 9 kts.
Coal:	400 tons
Complement:	60

Note.—In Black Sea.

DESNA

Note.—In Black Sea.

POLYARNAYA ZVIEZDA

Launched: May 31, 1890

Displacement:	5,000 tons
Dimensions:	349 × 46 × 17½ feet
Guns:	3—3 inch, 3—45 mm. AA., 2 M.G.
Machinery:	M.A.N. Diesels. 2 shafts. B.H.P.: 1,200 = 10 kts.
Oil fuel:	225 tons

Notes.—Re-engined 1936. Ex-Imperial Yacht, rebuilt 1936-37. Parent ship to submarines in Baltic.

Salvage Vessels.

1953

MB 24

Builders: Livingstone Shipbuilding Co., Orange, Texas, U.S.A.
Launched: 1944

Displacement:	835 tons
Dimensions:	134½ (w.l.), 143 (o.a.) × 34 × 15 feet
Guns:	1—3 inch d.p., 2—20 mm. AA.
Machinery:	2 B.M. diesels, 2 electric motors, 2 shafts, B.H.P.: 1,875 = 14 kts
Oil fuel:	187 tons
Complement:	34

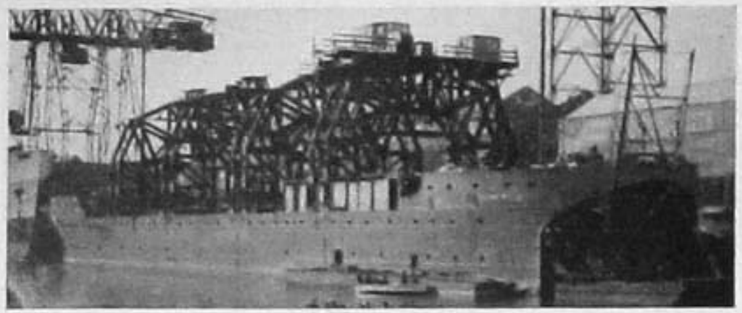
Note.—Ex-United States ATA (Ocean Rescue Tug). In Baltic.

SIGNAL

Launched: 1936.

Displacement:	680 tons
Speed:	14 kts.

Notes.—Fitted with powerful pumps and other apparatus for salvage. In Baltic.



KOMMUNA. *Added 1952, A.K., courtesy M. J. Meister.*

KOMMUNA (ex-*Volkhov*)

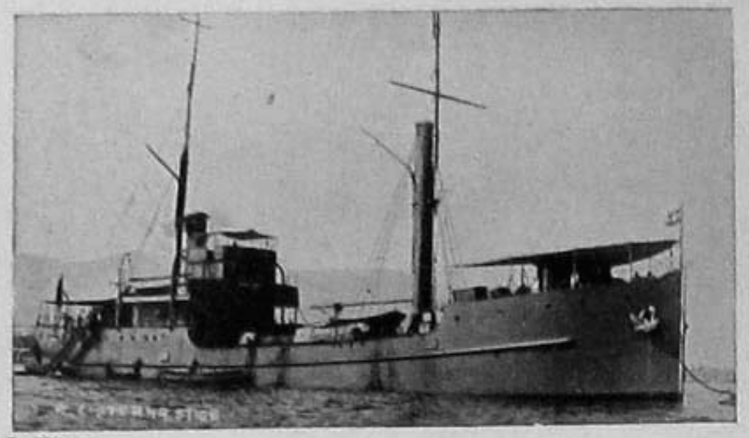
Launched: 1913.

Displacement:	2,400 tons
Machinery:	Diesels, 2 shafts

Notes.—Old submarine salvage vessel. Double hull. After having been out of commission for many years, towed to Vlissingen by Russian tugs, 26th May, 1950, to be refitted and modernised at De Schelde Yard, Flushing, Netherlands. Towed back to Russia July 1951.

Fleet Oilers.

No. 2 (new construction)



Ex-**STIGE**

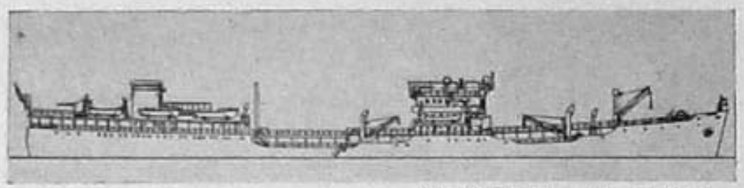
Launched: 1924.

Displacement:	1,343 tons
Dimensions:	173½ × 30½ × 13 feet
Guns:	1—4·7 inch, 1—3 inch AA.
Machinery:	Tosi Diesel. B.H.P.: 650 = 7 kts.

Notes.—Petrol Carrier. Built La Spezia.

SMYENA

Note.—Petrol carrier. In Baltic.



Added 1951, courtesy M. J. Meister.

Ex-**KÄRNTEN**

Measurement:	5,660 tons gross
Guns:	1—4·1 inch, 4—20 mm. AA.
Speed:	12 kts.

Note.—Ex-German oiler, now in Russian Navy.

Ex-**HAYASAKI** *Added 1953, Hajime Fukayu.*

Displacement:	950 tons.
Measurement:	2,166 tons gross
Dimensions:	190½ (p.p.), 194½ (w.l.), 204½ (o.a.) × 30½ × 10½ feet.
Guns:	1—3·1 inch, 2—25 mm., 2—13mm. AA.
Machinery:	2 diesel, B.H.P.: 1,600 = 15 kts.

Notes.—First Japanese refrigerating ship.

Fleet Oilers—*continued.*

GROSNEFT Displacement: 7,000 tons

Note.—In Black Sea.

ERIVAN Displacement: 3,500 tons

Note.—In Far East.

Transports.

1948.

Ex-**No. 13**

Displacement:	1,800 tons
Dimensions:	315 (o.a.) × 33½ × 12 feet
Guns:	2—5·1 inch, 26—25 mm. AA., 5 M.G., 42 D.C.
Machinery:	Turbine. S.H.P.: 9,500 = 22 kts.
Boilers:	2

Notes.—Former Japanese. Cargo capacity 500 tons for landing 480 marines.

1948.

Ex-**No. 137**

Displacement:	1,129 tons
Dimensions:	264 (o.a.) × 30 × 10½ feet
Guns:	1—3·9 inch, 21—25 mm. AA., 12 D.C.
Machinery:	Turbine. S.H.P.: 2,500 = 16 kts.

Notes.—Former Japanese. Cargo capacity, 218 tons, plus 674 tons fuel. Accommodation for 120 marines.

Ex-**MONTECUCCO** (ex-*KT 32*)

Launched: Dec. 19, 1942.

Measurement:	834·4 tons gross
Dimensions:	221½ × 39½ × 9 feet
Machinery:	Triple expansion. 2 shafts. I.H.P.: 2,200 = 12 kts.
Coal:	160 tons

Notes.—Former Italian. Built by Ansaldo. Ceded under Peace Treaty. Delivered to Russia, 23 May, 1949.

Water Carriers.

VODOLEI II

Builders: Sandvikens.
Launched: 1905.

Displacement:	660 tons
Speed:	9·5 kts.

VODOLEI I

Launched: 1907.

Displacement:	730 tons
Speed:	9·5 kts.

Ex-**BASENTO** Ex-**ISTRIA** Ex-**LIRI** Ex-**POLCEVERA**

Note.—Small water carriers ceded under Italian Peace Treaty.

169R

Icebreakers.

New Construction.

3 Finnish Type.

Displacement : 4,415 tons
Dimensions : 275½ × 63½ × 20½ feet
Machinery : Diesel. B.H.P. : 12,000 = 16·5 kts.
Oil fuel : 740 tons

Notes.—Three icebreakers of the Finnish *Voima* type are building at Sandvickers, Helsingfors, Finland, for completion in 1955-57.

General Notes.—Majority of following icebreakers are immensely strong in framing and scantlings, with exceptionally thick plating, and decks strengthened to permit of guns being mounted in war-time. In addition to the vessels below, there are a large number of smaller icebreakers of insufficient importance to warrant their inclusion here.

ILYA MUROMYETS (*ex-German Eisbar*)

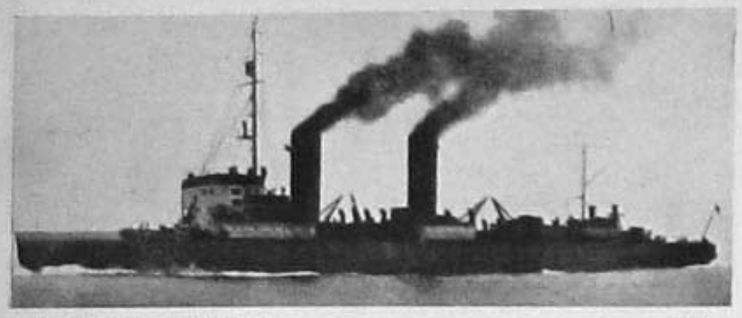
Builders : Eriksberg, Gothenborg.
Launched: 1941.

Displacement: 1,350 tons
Dimensions: 180½ × 49 × 21½ feet
Speed: 15 kts.

ALYOSHA POPOVITCH (*ex-German Eisvogel*)

Launched: 1941
Displacement : 1,559 tons

Note.—In White Sea.



VYATCHESLAV MOLOTOV. 1948.

LAZAR KAGANOVICH
MIKOYAN (*ex-Otto Schmidt*)

VYATCHESLAV MOLOTOV
YOSIF STALIN

Displacement: 11,000 tons (4,866 tons gross)
Dimensions: 335½ (*pp.*), 351 (*o.a.*) × 75½ × 22 feet
Machinery: 3 sets triple expansion, with Diesel-electric propulsion for cruising speeds. 3 shafts. H.P.: 10,050 = 15·5 kts.
Boilers: 9
Coal: 4,000 tons
Complement: 142

Notes.—3 aircraft and 1 catapult are said to have been included in design, though not apparent in above photo. All in White Sea.

Name	*Builders*	*Launched*
Lazar Kaganovich	Nikolaiev	30 Apr., 1937
Mikoyan	Baltic Works, Leningrad	1938
Vyatcheslav Molotov	Baltic Works, Leningrad	8 Mar., 1939
Yosif Stalin	Baltic Works, Leningrad	14 Aug., 1937

SEVMORPUTI

Launched: May, 1937.

Displacement: 6,000 tons
Speed: 11·5 kts.

Note.—Built at Leningrad.

Icebreakers—*continued.*

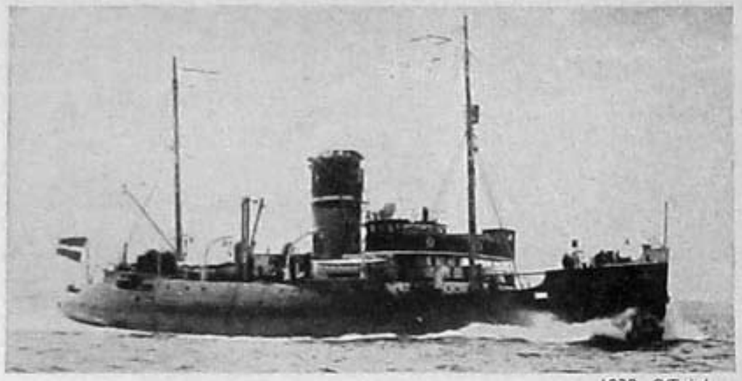
Added 1949.

SIBIRIAKOV (*ex-Jaakarhu*)

Builders: Smit, Rotterdam.
Launched: 1926.

Displacement: 4,825 tons
Dimensions: 246 × 63 × 21 feet
Machinery: Triple expansion. 3 shafts. I.H.P.: 9,200 = 15 kts.
Boilers: 8
Oil fuel:

Notes.—Formerly Finnish. Appropriated by Russia. Baltic.



1939, *Official.*

Ex-**KRISJANS VALDEMARAS**

Builders: Beardmore.
Launched: 1925.

Displacement: 2,800 tons (1,932 tons gross)
Dimensions: 196½ × 55½ × 22 feet
Machinery: Triple expansion. I.H.P.: 5,200 = 15 kts.
Coal: 350 tons
Complement: 55

Notes.—In Far East. Renamed now. Formerly a Latvian ship.

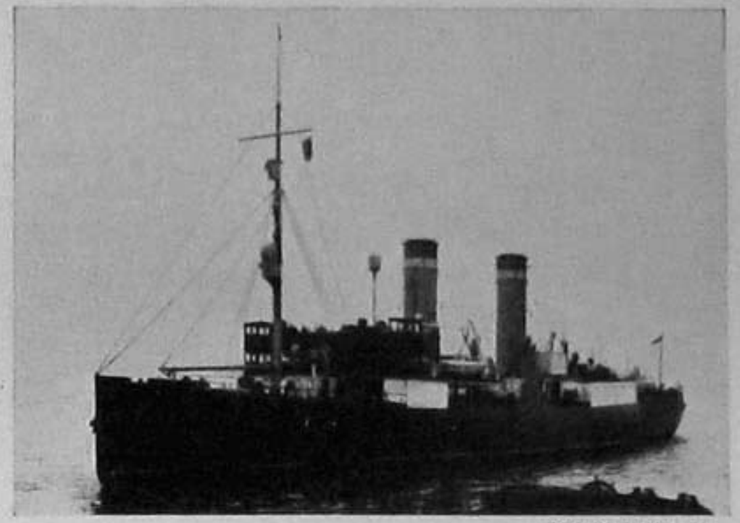
KRASSIN (*ex-Sviatogor*)

Builders: Armstrong.
Launched: 1917.

Displacement: 9,300 tons (4,902 tons gross)
Dimensions: 297 (*w.l.*), 323½ (*o.a.*) × 71 × 26 feet
Machinery: 3 sets triple expansion. 3 shafts. I.H.P.: 10,000 = 15 kts.
Boilers: 10 single-ended
Coal: 3,200 tons
Complement: 190

Note.—In Baltic.

Icebreakers—*continued.*



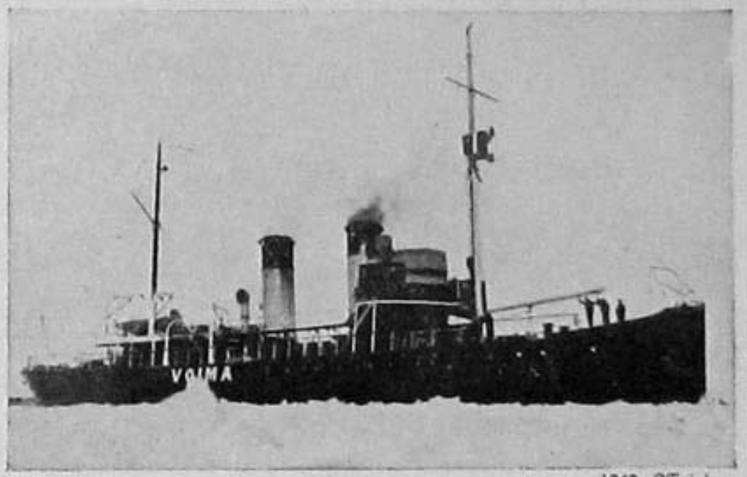
1949, *Keith P. Lewis.*

LENIN (*ex-Aleksandr Nevski*)

Builders: Armstrong.
Launched: 1917.

Displacement: 6,260 tons (3,828 tons *gross*)
Dimensions: 273 (*w.l.*), 281 (*o.a.*) × 64 × 19(*mean*), 20½ (*max.*)feet
Machinery: 3 sets triple expansion. 3 shafts. I.H.P.: 8,000 = 19 kts.
Boilers: 8
Coal: 1,200 tons
Complement: 122

Notes.—This ship was refitted on the Mersey, 1946-47. In Baltic.



1940, *Official.*

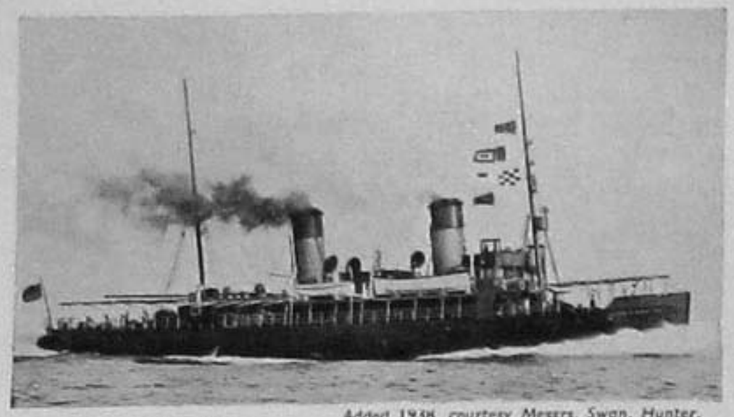
MALYGIN (*ex-Voima*)

Builders: Sandvikens.
Launched: 1917.

Displacement: 2,070 tons
Dimensions: 210½ × 46½ × 16½ feet
Machinery: Triple expansion. 1 shaft. I.H.P.: 4,100 = 13·5 kts.

Notes.—Ex-Finnish. In Baltic.

Icebreakers—*continued.*



Added 1938, courtesy Messrs. Swan, Hunter.

DOBRINYA NIKITICH

Builders: Swan, Hunter.
Launched: 1916.

Displacement:	2,460 tons *standard* (1,664 tons gross)
Dimensions:	200 (*pp.*), 211 (*o.a.*) × 50½ × 20 feet
Machinery:	Triple expansion. 2 shafts. I.H.P.: 4,000 = 14 kts.
Boilers:	6
Coal:	370 tons

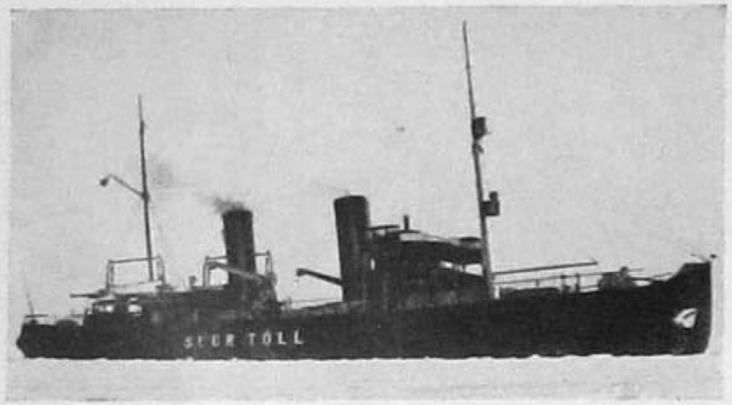
Note.—In Far East.

STEPAN MAKAROV (ex-*Kniaz Pojarski*)

Builders: Swan, Hunter.
Launched: 1916.

Displacement:	3,150 tons *standard* (2,156 tons gross)
Dimensions:	236 (*pp.*), 248 (*o.a.*) × 57 × 22 feet
Machinery:	3 sets triple expansion. 3 shafts. I.H.P.: 6,400 = 14·5 kts.
Boilers:	6
Coal:	700 tons

Note.—In Black Sea.



1939, *Official.*

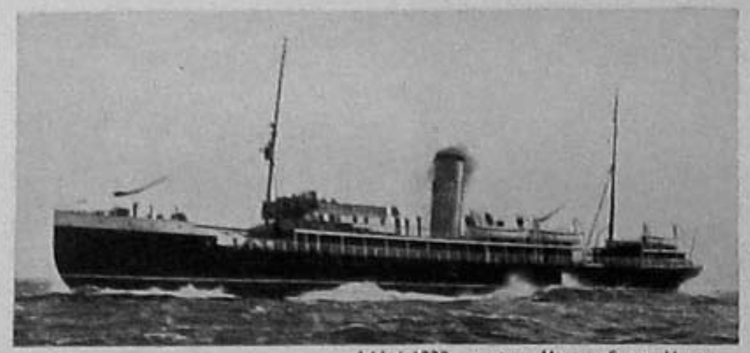
VOLYNETZ (ex-*Suur Töll*, ex-*Vainamoinen*, ex-*Volynetz*, ex-*Tsar Mikhail Feodorovitch*)

Launched: 1914.

Displacement:	4,000 tons
Dimensions:	236½ × 57 × 18½ feet
Machinery:	3 sets triple expansion. 3 shafts. I.H.P.: 5,800 = 13·5 kts.
Coal:	800 tons

Notes.—Ex-Estonian. In Baltic.

Icebreakers—*continued.*



Added 1938, courtesy Messrs. Swan, Hunter.

SADKO (ex-*Lintrose*)

Builders: Swan, Hunter.
Launched: 1913.

Displacement:	2,000 tons (1,613 tons gross)
Dimensions:	255 × 37½ × 21 feet
Machinery:	Triple expansion. I.H.P.: 3,500 = 14 kts.
Boilers:	4

Notes.—Transferred from Canadian Government service, 1915. This ship was sunk during First World War off the Arctic coast of Russia, where she lay for many years until raised and refitted. In White Sea.

FEODOR LITKE (ex-*Kanada*, ex-*Earl Grey*)

Builders: Vickers.
Launched: 1909.

Displacement:	3,400 tons (2,216 tons gross)
Dimensions:	250 (*pp.*), 265 (*o.a.*) × 48 × 17¾ (*mean*), 22½ (*max.*) feet
Machinery:	Triple expansion. 2 shafts. I.H.P.: 6,000 = 17 kts.

Notes.—Transferred from Canadian Govt. Service, 1915. Refitted on the Mersey, 1947-48. In White Sea.

GEORGEI SYEDOV (ex-*Beothic*) **VLADIMIR RUSSANOV** (ex-*Bonaventure*)

Displacement:	3,217 tons (1,383-1,588 tons gross)
Dimensions:	240½ × 36 × 16½ feet
Machinery:	Triple expansion. I.H.P.: 3,000 = 13·5 kts.
Coal:	500 tons

Notes.—Built 1909, by D. & W. Henderson & Co. and by Napier & Miller, respectively. Both purchased in 1915. White Sea. In 1939 *Georgei Syedov* achieved a record latitude in her ice-bound drift northward.

TAIMYR

Launched: 1909.

Displacement:	1,290 tons
Speed:	10·5 kts.

Note.—In White Sea.

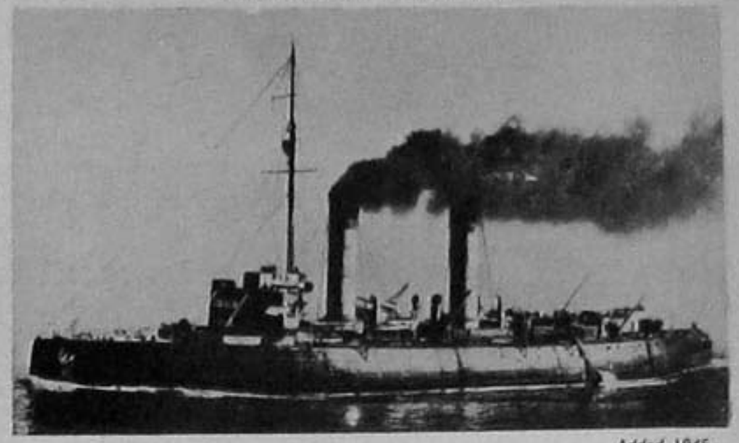
MONTCALM

Builders: Napier & Miller.
Launched: 1904.

Displacement:	3,270 tons (1,432 tons gross)
Dimensions:	245 × 40½ × 15½ feet
Machinery:	2 sets triple expansion. 2 shafts. I.H.P.: 3,225 = 14 kts.
Boilers:	4 Babcock & Wilcox
Coal:	425 tons

Notes.—Transferred from Canadian Govt. Service, 1942. In Far East.

Icebreakers—*continued.*



Added 1946.

YERMAK

Builders: Armstrong.
Launched: 1898.

Displacement:	8,800 tons (4,955 tons gross)
Dimensions:	305 (*pp.*), 320 (*o.a.*) × 71½ × 25 (*mean*), 28 (*max.*) feet
Machinery:	3 sets triple expansion. 3 shafts aft and 1 forward. I.H.P.: 9,500 = 14 kts.
Boilers:	10 S.E.
Coal:	2,100 tons
Complement:	112

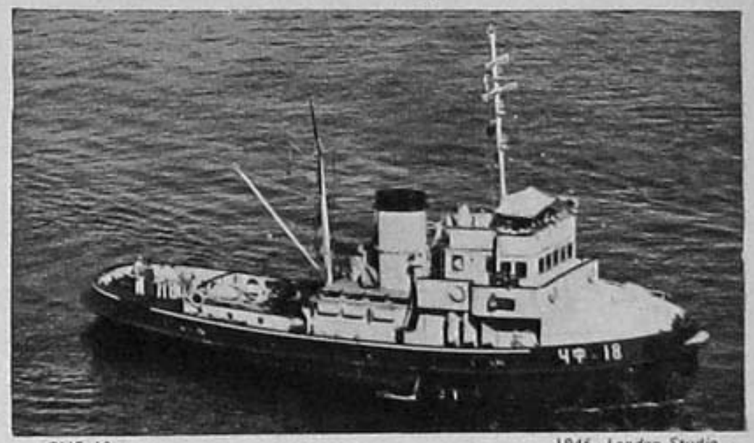
Notes.—Name of the conqueror of Siberia. Refitted at Antwerp, 1949-50. In Baltic.

DAVIDOV (ex-*Krasni Oktiabr*, ex-*Nadiejni*

Builders: Burmeister & Wain.
Launched: 1897.

Displacement:	1,525 tons (1,212 tons gross)
Dimensions:	184 × 43 × — feet
Machinery:	Compound. I.H.P.: 2,200 = 13 kts.

Fleet Tugs.



CHF 18. 1946, *London Studio.*

CHF 1-19

Notes.—Letters painted on bows in photo are initial letters of "Tchernomorski Flot" meaning "Black Sea Fleet".

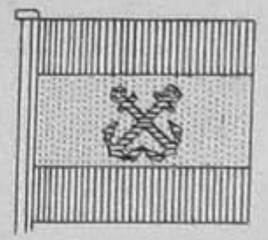
MOROZ

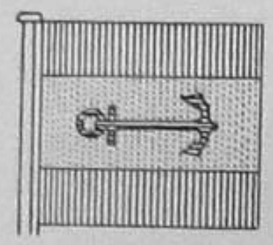
General Note.—Under the Peace Treaty with Italy, 8 large tugs, *Vigoroso, Capo d'Istria, Lampedusa, Rapallo, Porto Adriano, San Angelo, Talamone* and *Tifeo*, were to be ceded.

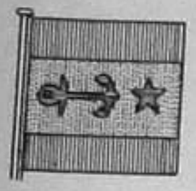
SPANISH NAVY

Flags.

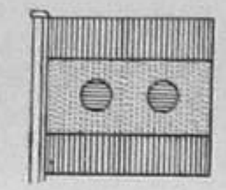
CHIEF OF STATE.

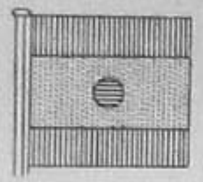

MINISTER OF MARINE.

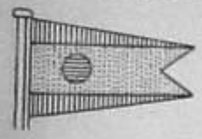

ADMIRAL OF THE FLEET.

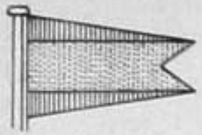

CHIEF OF NAVAL STAFF.

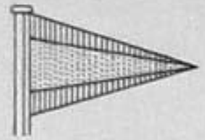
ADMIRAL.

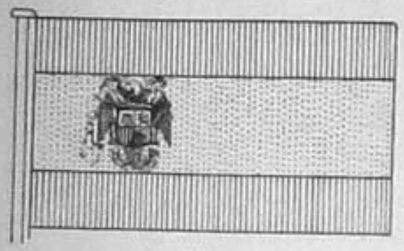

VICE-ADMIRAL IN COMMAND.


REAR-ADMIRAL IN COMMAND.

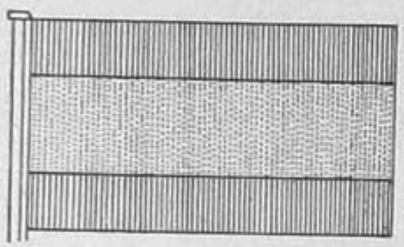

CAPTAIN IN COMMAND OF A DIVISION.

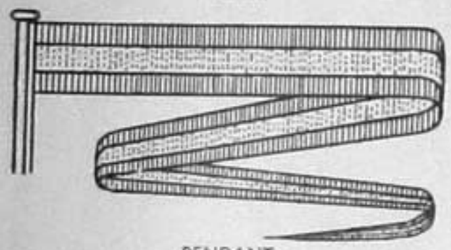

COMMANDER OR LIEUT.-COMMANDER IN COMMAND OF A DIVISION.

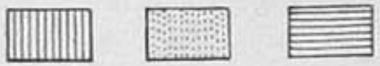

SENIOR OFFICER.


ENSIGN.

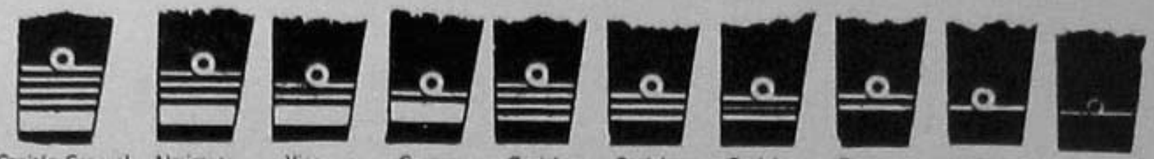
JACK.


MERCANTILE FLAG.


PENDANT.


RED. YELLOW. BLUE.

Uniforms.



Capitán-General de la Armada	Almirante	Vice-Almirante.	Contra Almirante.	Capitán de Navio.	Capitán de Fragata.	Capitán de Corbeta.	Teniente de Navio.	Alferez de Navio.	Alferez de Fragata.
Admiral of the Fleet.	*Admiral.*	*Vice-Admiral.*	*Rear-Admiral.*	*Captain.*	*Commander.*	*Lieutenant-Commander.*	*Lieutenant.*	*Sub-Lieut.*	*Midshipman.*

(The rank of Admiral of the Fleet is held only by the Caudillo, General Franco.)

Other branches *without a curl* have distinguishing colours as follows :

Engineers,	green	*Accountant and Supply Officers,*	white
Constructors,	blue	*Astronomical,*	sage
Surgeons,	red	*Pharmacists,*	yellow
Ordnance,	black	*Juridical,*	purple.

Administration.

Minister of Marine : Admiral Excmo. Sr. Don Salvador Moreno y Fernández.
Chief of Naval Staff : Admiral Excmo. Sr. Don Juan Pastor Tomaseti.
Commander-in-Chief of the Fleet : Vice-Admiral Excmo. Sr. Don Guillermo Diaz del Rio da Veiga.

Naval Attaché, London : Captain Don Rafael Fernandez de Bobadilla y Ragel.

Navy Estimates.

1951 : 146,942,375 pesetas. 1952 : 1,352,837,785.95 persetas.

Personnel.

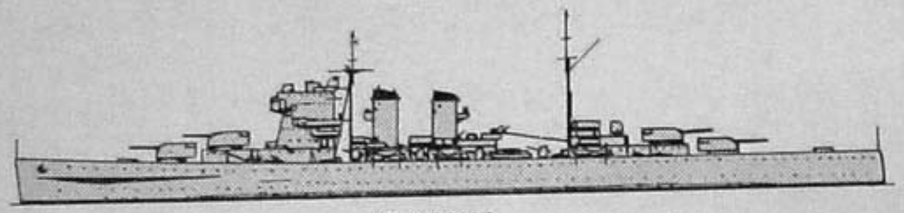
39,000 officers and ratings, including marines.

Training Establishments.

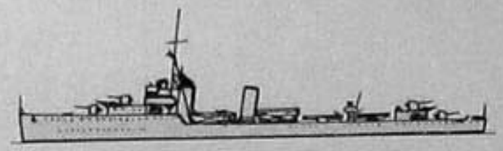
For *Executive Officers* and *Engineering Branch*, Naval School (*Escuela Naval Militar*), Marin, Galicia.
For *Petty Officers*, San Fernando.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 1,109 vessels of 1,219,450 tons gross.

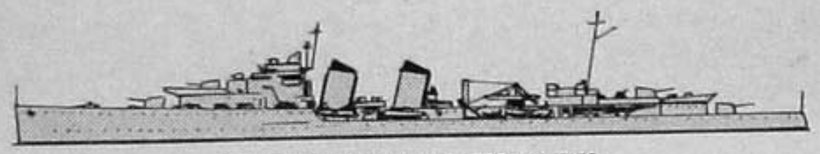


CANARIAS.



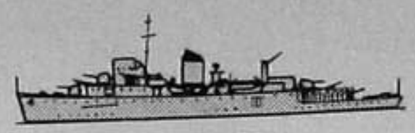
CHURRUCA *Group.*

CANOVAS DEL CASTILLO, DATO.



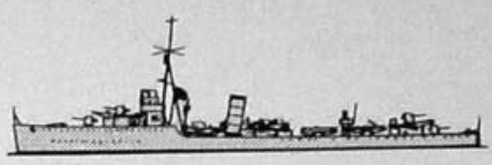
GALICIA, MIGUEL DE CERVANTES.

ALMIRANTE ANTEQUERA *Group.*



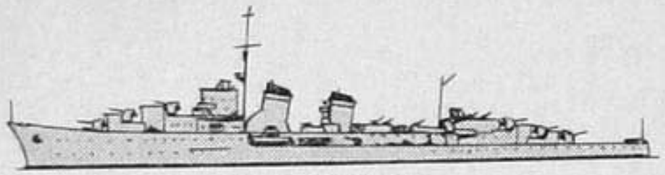
EOLO, TRITON.

ALMIRANTE CERVERA.

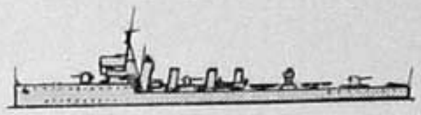


ALAVA, LINIERS.

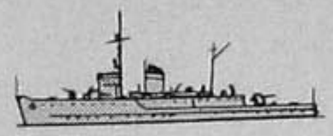
JUPITER *Class.*



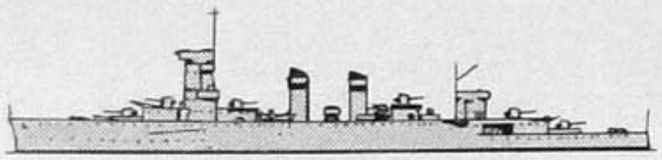
MENDEZ NUÑEZ.



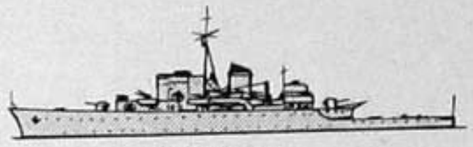
ALSEDO, VELASCO, LAZAGA.



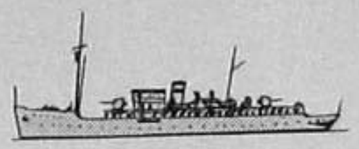
BIDASOA *Class.*



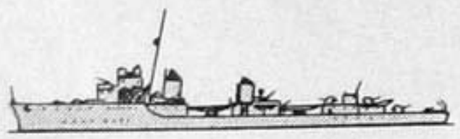
NAVARRA.



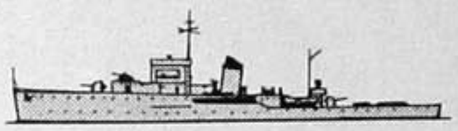
PIZARRO *Class.*



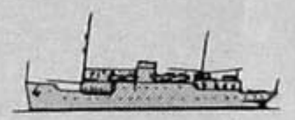
JUAN DE LA COSA.



AUDAZ *Class*



CALVO SOTELO.



MALASPINA, TOFIÑO.

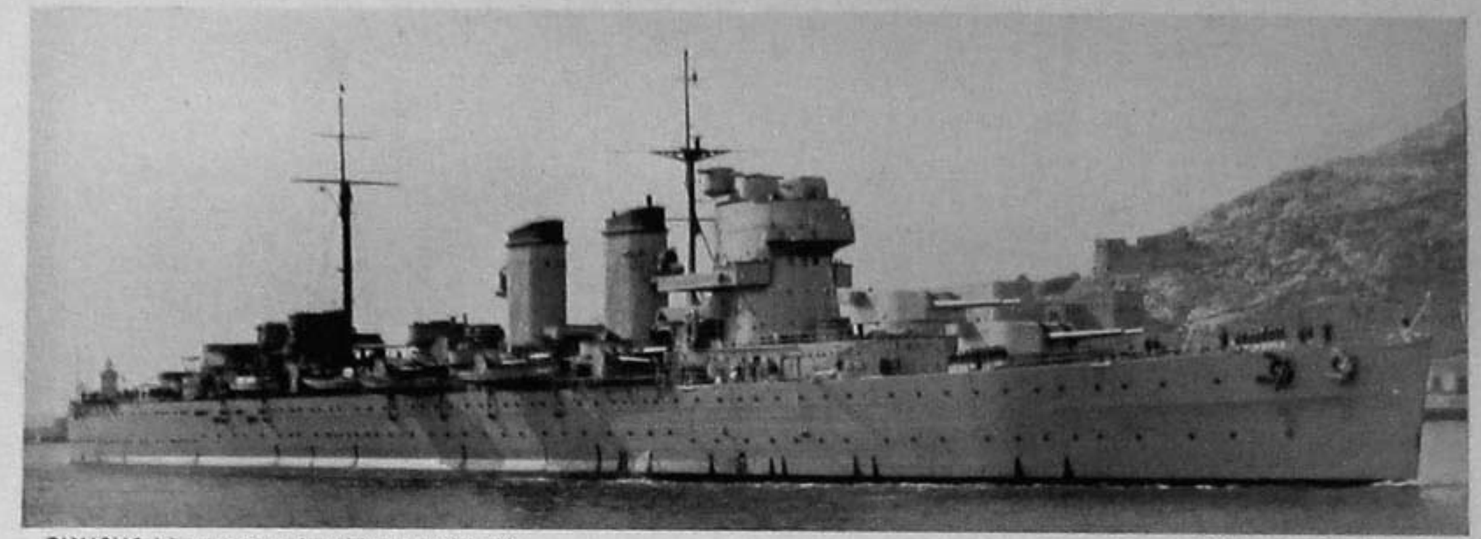
167R

Heavy Cruiser.

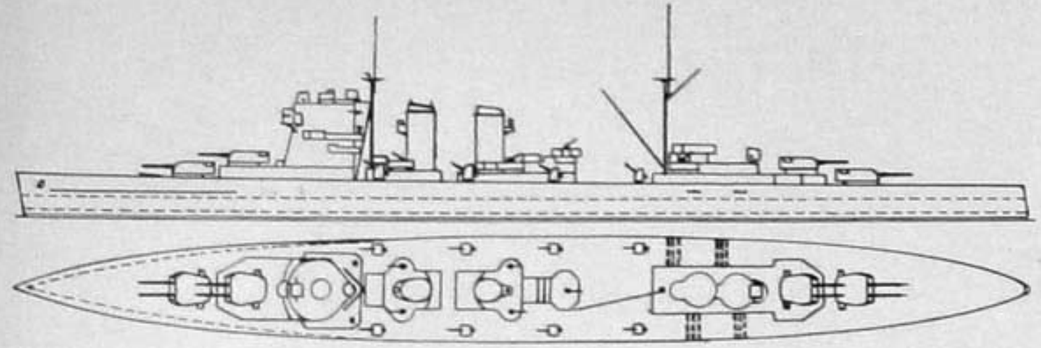
(Rated as *Crucero de Primera Clase*).

CANARIAS

Builders :	Sociedad Espanol de Construccion Naval, Ferrol
Laid down :	15 Aug. 1928
Launched :	28 May, 1931.
Completed :	Sept., 1936.
Displacement :	10,670 tons *standard* (12,230 tons *full load*)
Dimensions :	Length : 636 feet. Beam : 64 feet. Draught : 170 feet (*mean*)
Guns :	8—8 inch, 50 cal., 8—4·7 inch AA., 45 cal., 4—40 mm. AA., 3—20 mm. AA.
Tubes :	12—21 inch *above water* (tripled)
Armour :	1½"—2" side, 1" turrets, 4" magazines
Machinery :	Parsons geared turbines. 2 shafts. Designed S.H.P. : 90,000 = 33 kts.
Boilers :	8 Yarrow
Oil fuel :	2,794 tons
Radius :	8,000 miles at 15 kts.
Complement :	1,042



CANARIAS (after reconstruction with separate funnels). 1953, courtesy *Senor A. Aguilera.*



General Notes.—Designed by Sir Philip Watts. Named after Canary Islands. From completion until 1952 this ship had trunked funnels but on completion of refit early in 1953 she emerged with two separate funnels.

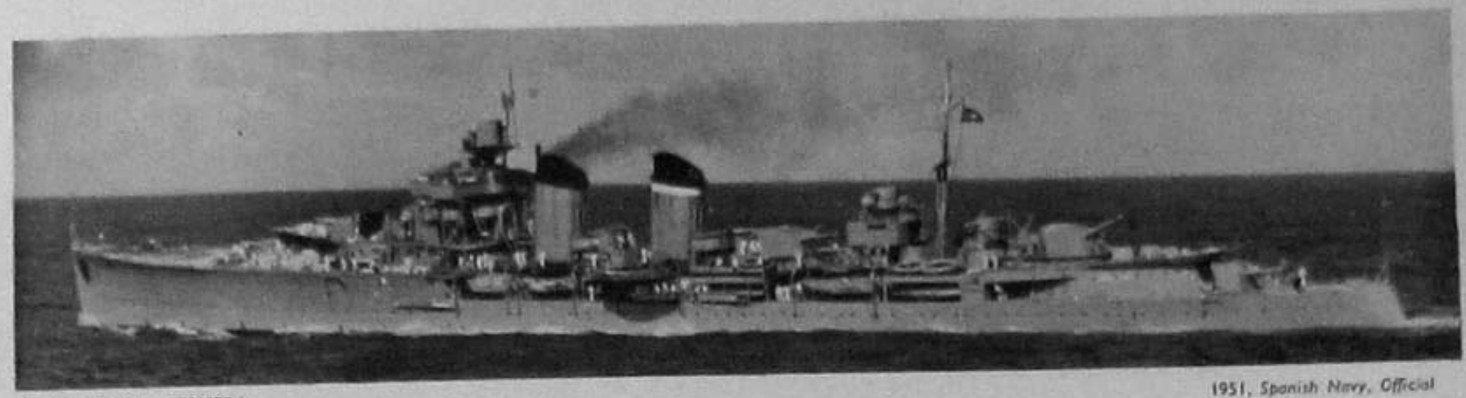
Gunnery Note.—Maximum elevation of 8-inch guns is 70 degrees.

CANARIAS. 1953, *Spanish Navy, Official.*

3 " Galicia " Class.

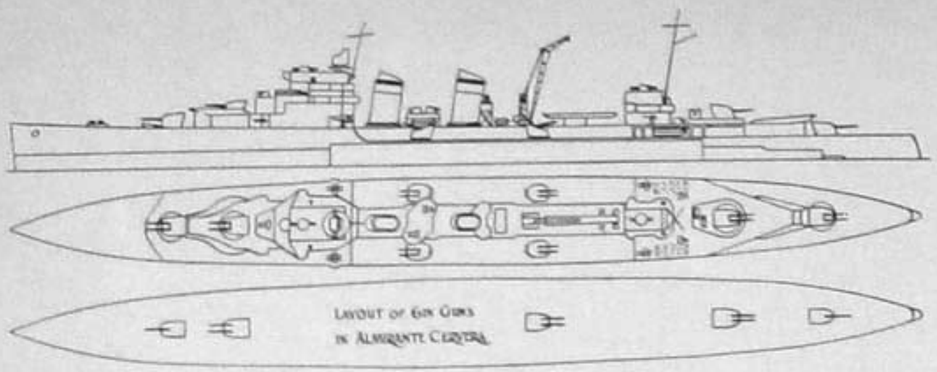
ALMIRANTE CERVERA
GALICIA (*ex-Libertad, ex-Principe Alfonso*)
MIGUEL DE CERVANTES

Displacement :	7,457 tons *standard*, (9,385 tons *full load*)
Dimensions :	Length : 575 (*pp.*), 579¼ (*o.a.*) feet. Beam : 54 feet. Draught : 16½ (*mean*), 20¼ (*deep load*) feet
Guns :	8—6 inch, 50 cal., 8—3·5 inch AA. (*Almirante Cervera* 4—4·1 inch AA.), 8—37 mm. AA., 20—20 mm. AA.
Tubes :	6—21 inch (tripled), (*Almirante Cervera* 12)
Armour :	3" side (admidships), 2" side (forward), 1¼" side (aft), 1" deck
Machinery :	Parsons geared turbines. 4 shafts. Designed S.H.P. : 80,000 = 33 kts.
Boilers :	8 Yarrow (large tube)
Oil fuel :	500 tons *normal*, 1,700 tons *max.*
Radius :	5,000 miles at 15 kts., 1,200 miles at *full power*
Complement	564



ALMIRANTE CERVERA.

1951, *Spanish Navy, Official*



GALICIA.

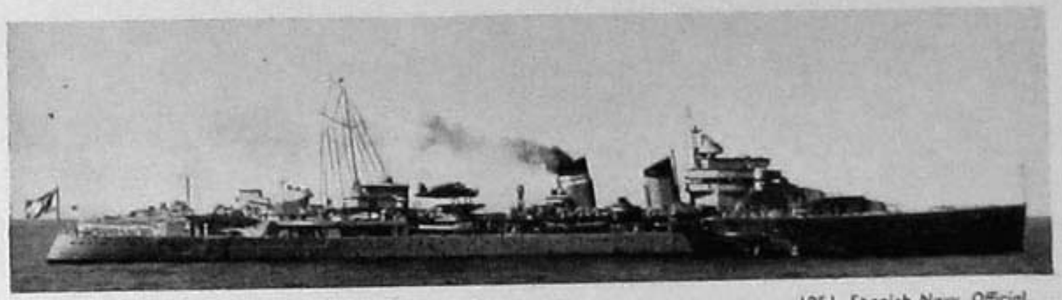
1952, *Spanish Navy, Official.*

General Notes.—Laid down by S.E.C.N. at Ferrol D.Y., under Navy Law of Feb. 17, 1915. Cost estimated at about 8,122 pesetas per ton. Respective names are those of the Commander-in-Chief of the Spanish fleet in the West Indies during the war with the U.S.A. in 1898, Admiral Pascal Cervera y Topete; the north-western province of Spain; and the author of *Don Quixote*. Designed under direction of late Sir Phillip Watts, K.C.B., for Spanish Government. Reconstructed and modernised during 1940-46. Torpedo tubes are in revolving mounts on upper deck.

Engineering Notes.—On trials *Galicia* developed 83,000 S.H.P. and attained a speed of 34·7 kts.

Appearance Notes.—*Galicia* now mounts a radar scanner just abaft the main director on the bridge on a small lattice tower.

Name	*Builder*	*Engineers*	*Laid down*	*Launched*	*Completed*
Almirante Cervera	Ferrol D.Y.	S.E.C.N.	25 Nov., 1922	16 Oct., 1925	May, 1927
Galicia			Aug., 1922	3 Jan., 1925	Dec., 1925
Miguel de Cervantes			Apr., 1926	19 May, 1928	1931



MIGUEL DE CERVANTES.

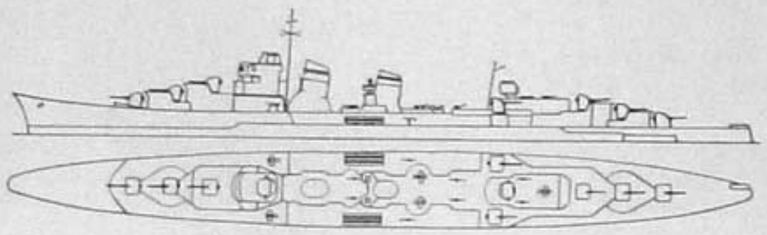
1951, *Spanish Navy, Official.*

Anti-Aircraft Cruiser.

1952, *Spanish Navy, Official.*

MENDEZ NUÑEZ

Builders :	Ferrol Dockyard
Engineers :	Sociedad Español de Construccion Naval
Laid down :	28 Sep., 1917
Launched :	3 Mar., 1923
Completed	1924
Displacement :	4,500 tons *standard* (6,140 tons *full load*)
Dimensions :	Length : 440 (*pp.*), 462 (*o.a.*) feet. Beam : 46 feet. Draught : 14¼ (*mean*), 19 (*max.*) feet
Guns :	8—4·7 inch AA., 10—37 mm. AA., 8—20 mm. AA.
Tubes :	6—21 inch (tripled)
Armour :	1"-½" side (amidships), 1"-½" side (ends), 1" deck
Machinery :	Parsons geared turbines. 4 shafts. Designed H.P. : 45,000 = 29 kts
Boilers :	12 Yarrow (6 oil-burning, 6 mixed-firing)
Fuel :	806 tons coal : 727 tons oil.
Radius :	5,000 miles at 13 kts.
Complement:	370



General Notes.—Rebuilt and rearmed, 1944-47, funnels being reduced in number from 3 to 2 and appearance entirely altered.

Historical Note.—Named after Don Casto Mendez Nuñez, Commander-in-Chief of the Spanish Fleet in the Pacific in 1866. He bombarded Valparaiso on March 31 of that year, but was repulsed with a wound at Callao on May 2.

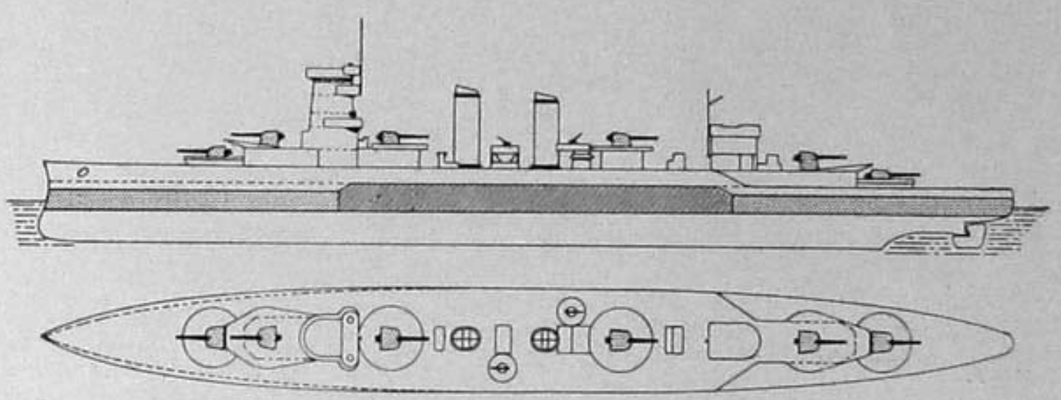
Engineering Notes.—On trials reached 29·28 kts. with 43,776 S.H.P.

Light Cruiser.

1953, *Official.*

NAVARRA (*ex-Republico, ex-Reina Victoria Eugenia*)

Builders :	Ferrol Dockyard
Engineers :	Sociedad Español de Construccion Naval
Laid down :	Mar. 1915
Launched :	21 Apr., 1920
Completed :	15 Jan., 1923
Displacement :	4,857 tons *standard* (6,348 tons *full load*)
Dimensions :	Length : 440 (*pp.*), 462 (*o.a.*) feet. Beam : 50 feet. Draught : 15½ (*mean*, 21½ (*max.*) feet
Guns (Vickers	6—6 inch, 50 cal 4—3·5 inch AA., 4—20 mm. AA.
Armour :	3" side, 2½"-1½" ends, 3" deck, 6" conning tower. (Nickel and H.T.)
Machinery :	Parsons turbines. 2 shafts. Designed H.P. : 25,000 = 25·5 kts.
Boilers :	8 Yarrow
Oil fuel :	1,200 tons
Radius :	4,500 miles at 15 kts.
Complement :	404



General Notes.—Ordered Aug. 1914. Built under Navy Law of July 30, 1914, and named after the ancient kingdom of Navarre. Refitted and reboilered at Cadiz, 1937-38, changes involved being reduction of funnels from 3 to 2, removal of 3 guns of main armament, new bridgework and masts. Now in reserve, having been officially deleted from the effective list.

Gunnery Notes.—6-inch are Vickers models, built at La Carraca.

Engineering Notes.—On first trials averaged 26,019 S.H.P. = 25.77 kts. for eight hours and 28,387 S.H.P. = 26·9 kts. for four hours.

Destroyers (*Destructores*).

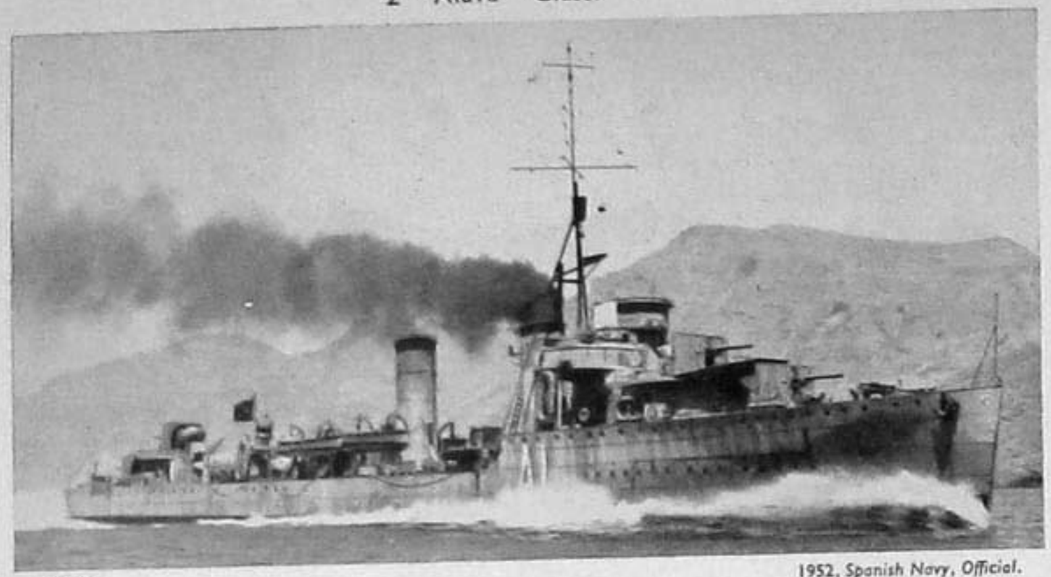
3 " Oquendo " Class.

	BLAS DE LEZO	OQUENDO	ROGER DE LAURIA
Displacement :	1,943 tons (2,680 tons *full load*)		
Dimensions :	382 × 36 × 12 (*mean*) feet		
Guns :	6—4·7 inch AA. (twin mounts), 8—37 mm. AA., 4—20 mm. AA.		
Tubes :	7—21 inch, 2 D.C.T.		
Machinery :	Geared turbines of Rateau-Bretagne type. 2 shafts. S.H.P. : 60,000 = 39 kts.		
Boilers :	3, of 3-drum type		
Oil fuel :	659 tons		
Radius of action :	5,000 miles at 20 kts.		
Complement :	267		

General Notes.—All ordered at Ferrol, 1947-48. *Roger de Lauria* laid down 4 Sept., 1951. The " Oquendo " class have now been reduced to three ships only. *Blasco de Garay, Bonifaz, Gelmirez, Langara, Marqués de la Ensenada,* and *Recalde* will not now be built, having been cancelled in 1953.

Historical Notes.—Don Blas le Lezo (1687-1741) lost a leg at the Battle of Malaga, an eye in the siege of Toulon, and an arm during the second siege of Barcelona. He died after repulsing Admiral Vernon's attack on Cartagena. Admiral Don Miguel de Oquendo was one of Medina-Sidonia's principal flag officers in the Great Armada ; his son, Antonio de Oquendo (1577-1639), defeated the Dutch off Pernambuco in 1633, but lost his life in action against Tromp in the Downs six years afterwards. Lauria (1250-1305) expelled the French from Sicily and defeated the Turks at sea.

2 " Alava " Class.



ALAVA.

1952, *Spanish Navy, Official.*

	ALAVA	LINIERS
Displacement :	1,635 tons (2,036 tons *full load*)	
Dimensions :	332 × 31½ × 15 (*mean*) feet	
Guns :	4—4·7 inch, 6—37 mm. AA., 3—20 mm. AA.	
Tubes :	6—21 inch (tripled)	
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 44,000 = 36 kts.	
Boilers :	4 Yarrow, of 3-drum type.	

General Notes.—These two destroyers, a development of the *Churruca* design, were originally ordered in 1936, but construction was held up by the Civil War. After being resumed, it was again suspended in 1940, restarted once more at Cartagena, 1944.

Historical Notes.—Don Miguel Ricardo de Alava (1771-1843), originally a naval officer, fought against the French at the Battle of Vitoria, and rose to the rank of General. Don Santiago de Liniers (1756-1810) defended Buenos Aires against British attack in 1807, and subsequently became Governor of that province. He then supported the cause of Ferdinand VII against the usurpation of Joseph Buonaparte, and was executed in consequence.

Initials	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
AL	*Alava*	Cartagena	21 Dec., 1944	19 Jun., 1947	1950
LS	*Liniers*	Cartagena	1 Jan 1945	1 May 1946	27 Jan., 1951

9 " Audaz " Class.

AUDAZ.

1952, *Spanish Navy, Official.*

	ARIETE AUDAZ FUROR	INTREPIDO METEORO (ex-*Atrevido*) OSADO	RAYO RELAMPAGO TEMERARIO
Displacement :	1,100 tons (1,475 tons *full load*)		
Dimensions :	305 × 30¾ × 10 (*mean*) feet		
Guns :	3—4 inch, 4—37 mm. AA., 4—20 mm. AA. 2 D.C.T		
Tubes :	6—21 inch (tripled)		
Machinery :	Rateau-Bretagne geared turbines. 2 shafts. S.H.P. : 28,000 = 33 kts		
Boilers :	3, of 3-drum type		
Oil fuel :	290 tons		
Radius :	3,800 miles at 14 kts.		
Complement :	145		

Notes.—All built at Ferrol. Meanings of names : *Ariete*, battering ram ; *Audaz*, audacious ; *Furor*, fury ; *Intrepido*, fearless ; *Osado*, daring ; *Rayo*, thunderbolt ; *Relampago*, lightning flash ; *Temerario*, venturesome. *Audaz* laid down 26 Sep., 1945, launched 24 Jan. 1951, trials 1952-53. Five laid down 3 Aug. 1945. *Intrepido, Relampago* and *Temerario* begun later. *Meteoro, Osado* and *Rayo* all launched 4 Sept., 1951. *Osado* ready for trials early 1953.

3 " Alsedo " Class.

ALSEDO.

1952, *Spanish Navy, Official.*

	ALSEDO	LAZAGA	VELASCO
Displacement :	1,044 tons *normal* (1,315 tons *full load*)		
Dimensions :	275 (*pp.*), 283 (*o.a.*) × 27 × 15 (*max.*) feet		
Guns :	3—4 inch, 45 cal., 4—37 mm. AA., 2 D.C.T		
Tubes :	4—21 inch in 2 twin deck mountings		
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 33,000 = 34 kts.		
Boilers :	4 Yarrow		
Oil fuel :	272 tons		
Radius :	2,500 miles at 15 kts		
Complement :	86		

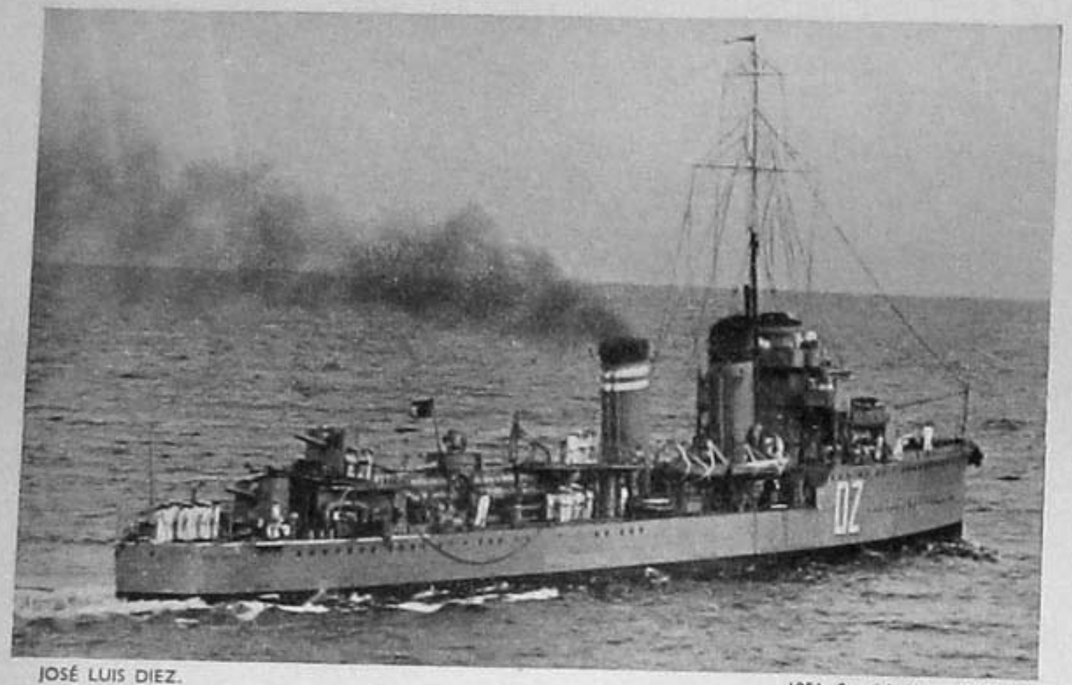
General Notes.—All laid down at Cartagena June, 1920, launched 26 Oct. 1922 (*Alsedo*), 1923 (*Velasco*) and March 1924 (*Lazaga*). Completed 1924 (*Alsedo*), Aug. 1925 (*Lazaga*). Provided under Law of 1915. *Lazaga* was originally known as *Juan Lazaga*. Are distinguished by initial letters painted on bows, viz., *Alsedo*, A ; *Lazaga*, L ; *Velasco*, V.

Historical Notes.—Don Francisco Alsedo y Bustamente was killed while commanding the *Montanes* at Trafalgar. Don Luis Vicente de Velasco lost his life in the defence of the Morro Castle against the British at Havana, 1762. Captain Juan Lizaga was killed while commanding the cruiser *Oquendo* at the Battle of Santiago, 1898.

Note.—The old destroyer *Huesca* is still in service for instruction purposes.

Destroyers—*continued.*

13 "Churruca" Class.



JOSÉ LUIS DIEZ.

1951, *Spanish Navy, Official.*

First Group (6)

ALCALÁ GALIANO
ALMIRANTE VALDÉS
CHURRUCA
JOSÉ LUIS DIEZ
LEPANTO
SANCHEZ BARCAIZTEGUI

Second Group (7).

ALMIRANTE ANTEQUERA
ALMIRANTE MIRANDA
CISCAR
ESCAÑO
GRAVINA
JORGE JUAN
ULLOA

Displacement :	1,536 tons *standard* (2,086 tons *full load*)
Dimentions :	320 (*pp.*), 333 (*o.a.*) × 31½ × 17 (*max.*) feet
Guns :	4—4·7 inch, 3—37 mm. AA., 2—20 mm. AA., 4 D.C.T. (All Second Group and *Almirante Valdés* also have 1—3 inch and 4—37 mm.)
Tubes :	6—21 inch (tripled)
Machinery :	2 secs Parsons geared turbines. 2 shafts. S.H.P. : 42,000 = 36 kts.
Boilers :	4, of 3-drum type
Oil fuel :	540 tons
Radius :	4,500 miles at 14 kts.
Complement :	175

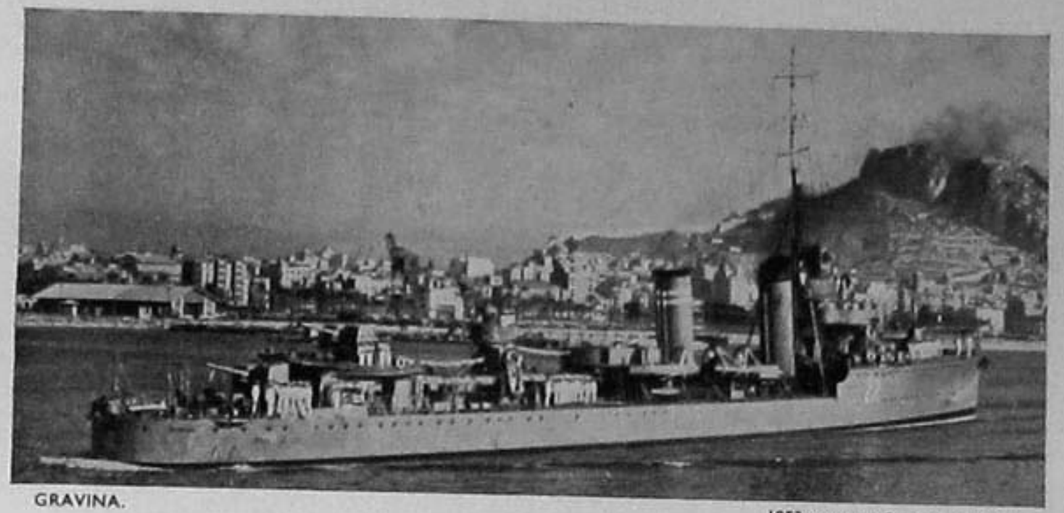
General Notes.—All built at Cartagena by S.E. de C.N. Two earlier ships of this class, originally named *Alcalá Galiano* and *Churruca*, were sold to Argentina, 1927, new units bearing same names being built to replace them. *Almirante Juan Ferrandiz* and *Ciscar*, sunk in Civil War, Sept., 1936 and Oct., 1937, respectively, but latter ship was salved and refitted in 1938-39. *Churruca* torpedoed by submarine, but repaired.

Now have numbers instead of initials painted on bows, see photos of *Gravina*, top right, and table below.

Historical Notes.—Admiral Don Federico Gravina died of wounds received at Trafalgar, where he commanded the Spanish fleet. Rear-Admiral Don Antonio Escaño was his chief of staff. Commodore Galiano commanded the *Bahama*, Don Cosme Churruca the *San Juan Nepomuceno*, and Don Cayetano Valdés, the *Neptuno*, in the same battle. Don Antonio de Ulloa (1716-95) was a flag officer who served with distinction in S. America, and became Governor of Louisiana in 1764. Don Jorge Juan y Santacilia (1713-73) was a celebrated naval architect and scientist. Lepanto was the victory gained over the Turks by the Spanish and Italian fleets under Don Juan de Austria in 1571.

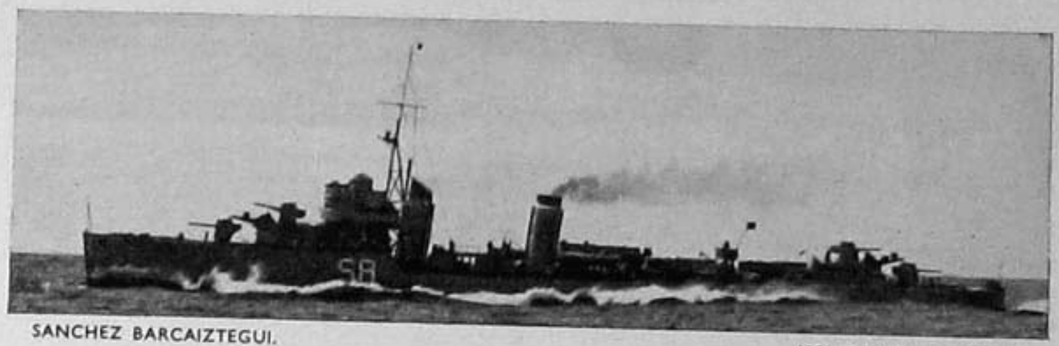
No.	*Name*	*Launched*	*Completed*
	Alcalá Galiano	12 Apr., 1930	1931
	Almirante Valdés	8 Sep., 1930	1932
	Churruca	June, 1929	1931
12	*José Luis Diez*	25 Aug., 1926	1929
	Lepanto	7 Nov., 1929	1930
11	*Sanchez Barcaiztegui*	24 Jul., 1926	1928

No.	*Name*	*Launched*	*Completed*
13	*Almirante Antequera*	29 Dec., 1930	1934
	Almirante Miranda	20 June, 1931	1934
	Ciscar	26 Oct., 1933	1936
	Escaño	28 Jun., 1932	1935
22	*Gravina*	24 Dec., 1931	1934
14	*Jorge Juan*	28 Mar., 1933	1936
	Ulloa	24 Jul., 1932	1936



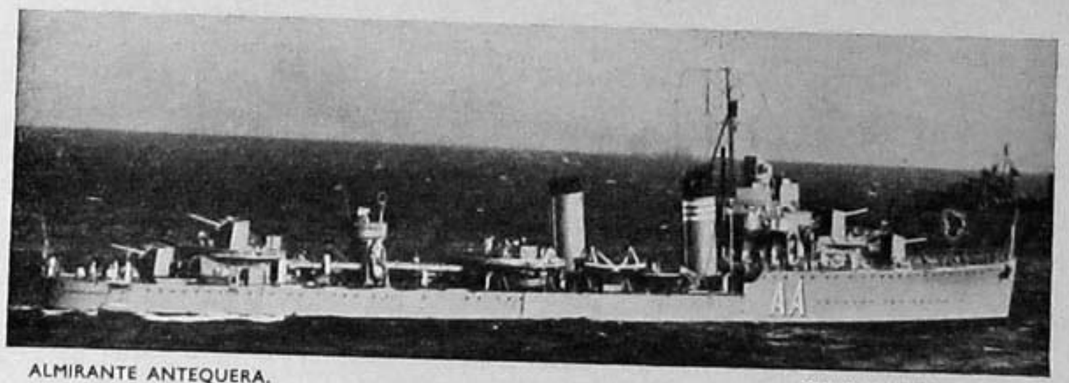
GRAVINA.

1953, *courtesy Señor A. Aguilera.*



SANCHEZ BARCAIZTEGUI.

1951, *Spanish Navy, Official.*

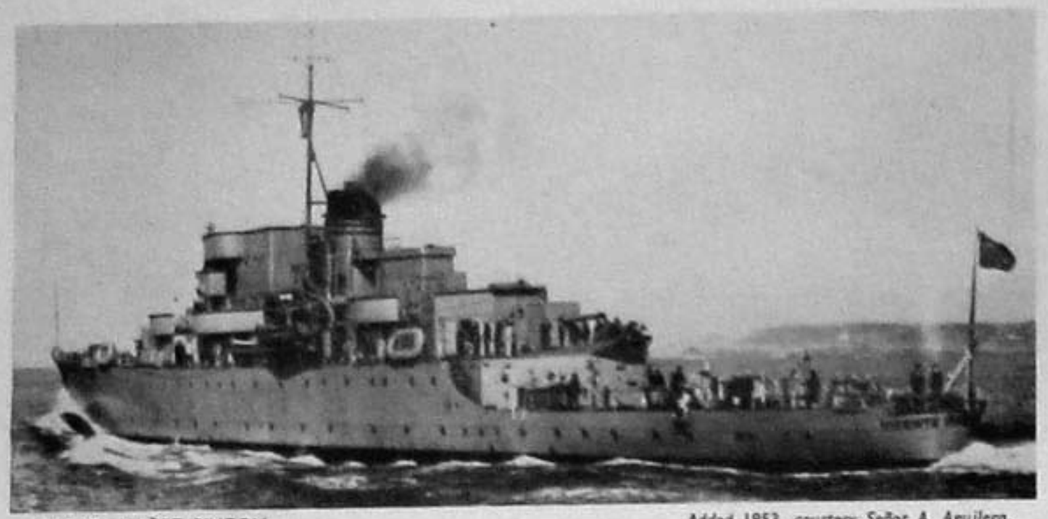


ALMIRANTE ANTEQUERA.

1951, *Spanish Navy, Official.*

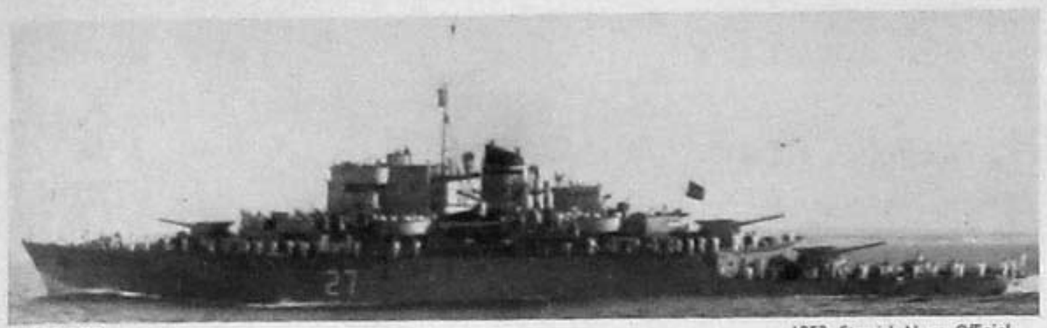
Frigates (rated as *Canoneros*).

8 "Pizarro" Class.



VICENTE YAÑEZ PINZON

Added 1953, courtesy Señor A. Aguilera.



LEGAZPI.

1953, Spanish Navy, Official.

HERNAN CORTES
LEGAZPI
MAGALLANES
MARTIN ALONSO PINZON
PIZARRO
SARMIENTO DE GAMBOA
VASCO NUÑEZ DE BALBOA
VICENTE YAÑEZ PINZON

Displacement :	1,710 tons (2,246 tons *full load*)
Dimensions :	279 (pp.), 312½ (o.a.) × 39½ × 11 feet
Guns :	6—4·7 inch AA. (twin mounts), 8—37 mm. AA., 6—20 mm. AA., 2 D.C.T.
Machinery :	2 sets Parsons geared turbines. 2 shafts. S.H.P. : 5,000 = 18·5 kts.
Boilers :	2 Yarrow
Oil fuel :	386 tons *normal*, 402 tons *max.*
Radius :	3,000 miles at 14 kts.
Complement :	250

General Notes.—All built at Ferrol and commissioned for service on dates shown below. Designed to carry 30 mines. Now have numbers painted on sides (see photo of *Legazpi*).

Name	*Launched*	*Completed*	*Name*	*Launched*	*Completed*
Hernan Cortes	3 Aug., 1944	18 Sep., 1947	*Pizarro*	3 Aug., 1944	9 Aug., 1946
Legazpi	8 Aug., 1944	8 Aug., 1951	*Sarmiento de Gamboa*	8 Aug., 1944	2 May, 1950
Magallanes	8 Aug., 1944	20 Dec., 1948	*Vasco Nuñez de Balboa*	3 Aug., 1944	15 Mar., 1947
Martin Alonso Pinzon	3 Aug., 1944	18 Mar., 1948	*Vicente Yañez Pinzon*	3 Aug., 1944	5 Aug., 1949

Frigates—*continued.*

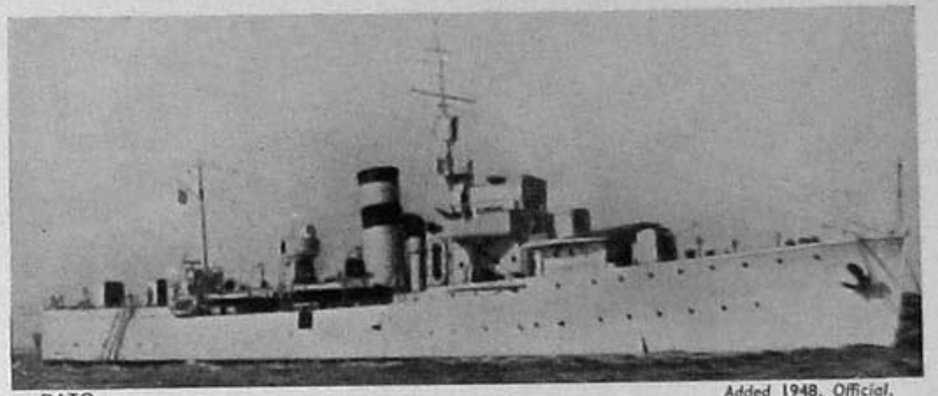
1951, Spanish Navy, Official.

CALVO SOTELO (ex-*Zacatecas*)

Builders :	Echevarrieta y Larrinaga, Cadiz
Launched :	27 Aug., 1934
Completed :	1936
Displacement :	1,600 tons
Dimensions :	282 (pp.), 303 (o.a.) × 40 × 10 feet
Guns :	2—4 inch, 2—3 inch AA., 3—20 mm. AA.
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 6,500 = 20 kts.
Boilers :	2 Yarrow
Oil fuel :	138 tons
Radius :	3,000 miles at 15 kts.

Note.—This ship was completing for the Mexican Navy in 1936, when she was acquired by the Spanish Government.

2 "Dato" Class.



DATO.

Added 1948, Official.

CANOVAS DEL CASTILLO
DATO

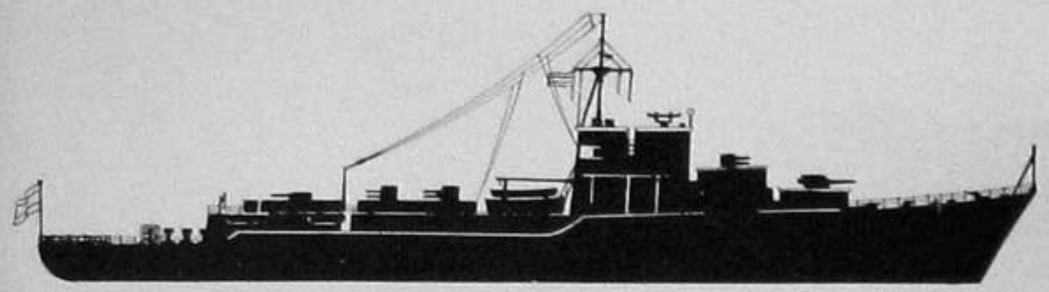
Displacement :	1,000 tons (1,314 tons *full load*)
Dimensions :	236½ (pp), 251½ (o.a.) × 33½ × 11½ feet
Guns :	4—4·1 inch, 2—3 inch AA., 3—20 mm. AA.
Machinery :	2 sets triple expansion. 2 shafts. I.H.P. : 1,700 = 15 kts.
Boilers :	2 Yarrow
Fuel :	324 tons coal or oil
Radius :	6,500 miles at 10·5 kts.
Complement :	141

Notes.—Provided for by Law of Feb. 17, 1915, and ordered Jan., 1920. These ships were originally named *Antonio Canovas del Castillo* and *Eduardo Dato*, but names were subsequently shortened. Sister ship *Canalejas* broken up for scrap 1953.

Name	*Builders*	*Launched*	*Completed*
Canovas del Castillo	S.E.C.N., Cartagena	21 Jan., 1922	1923
Dato	S.E.C.N., Cartagena	Jul., 1923	1924

Corvettes. *(Corbetas).*

New Construction.



1951, *Spanish Navy, Official.*

ATREVIDA
DESCUBIERTA
DIANA
FAVORITA
NAUTILUS
PRINCESA

Displacement :	880 tons (1,000 tons *full load*)
Dimensions :	242¾ (*o.a.*) × 39½ × 8¼ feet (depth 17 feet)
Guns :	1—4·1 inch AA., 2—37 mm. (twin mount), 12—20 mm. (quadruple mounts)
A/S Weapons	4 D.C.T.
Machinery :	Diesels
Speed :	18·5 kts.

Notes.—Construction begun June 1950 (first two) and 1951 at Cartagena, except *Diana* and *Nautilus*, at Cadiz. *Atrevida* launched 1953.

Submarines *(Submarinos).*

New Construction.

G 1 **G!** **G 3** **G 4**

Displacement :	760 tons
Dimensions :	200 × 20 × 14½ feet
Guns :	1—3·5 inch AA., 1—20 mm. AA.
Tubes :	5—21 inch
Speed :	17·5 kts. (*surface*), 8 kts. (*submerged*)

Notes.—Four ordered 1945. Under construction at Cartagena. Reported to be generally similar to *G 7*.

Ex-German Type.

G. 7.

1952, *Spanish Navy, Official.*

G 7 *(ex-U 573.)*

Builders :	Blohm & Voss, Hamburg
Displacement :	757 tons (*surface*), 857 tons (*submerged*)
Dimensions :	228½ × 20½ × 14½ feet
Guns :	1—3·5 inch
Tubes :	5—21 inch (4 bow, 1 stern)
Machinery :	B.H.P. : 3,000 (Diesels) = 17·9 kts. (*surface*), H.P. 750 (Electric motors) = 8·5 kts. (*submerged*)
Radius :	9,000 miles (*surface*)
Complement :	45

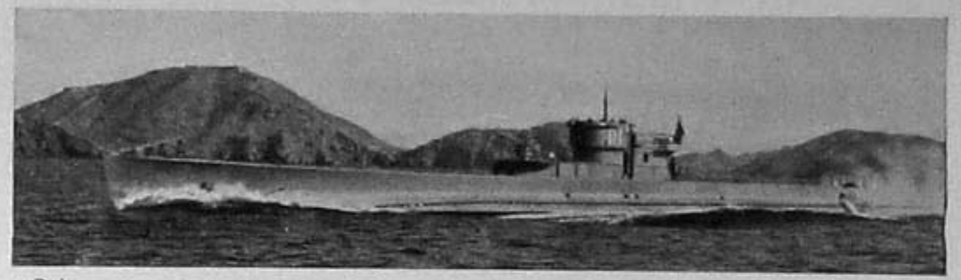
Notes.—Built in Germany. Interned in Spain in 1942 and purchased the following year.

Submarines—*continued.*

3 "D" Class.

D 2

1952 *Spanish Navy, Official.*



D 1.

1946, *Official.*

D 1 **D 2** **D 3**

Displacement :	1,065 tons (*surface*), 1,370 tons (*submerged*)
Dimensions :	275¼ × 21¾ × 13¼ feet (*mean*)
Guns :	1—4·7 inch, 2 M.G.
Tubes :	6—21 inch (4 bow, 2 stern)
Machinery :	2 Sulzer Diesels. B.H.P. : 5,000 = 20·5 kts. (*surface*) : Electric motors. : H.P. 1,300 = 9·5 kts. (*submerged*)
Radius :	9,000 miles (*surface*)
Complement :	60

Notes.—Admiralty type. Diving limit, 50 fathoms. *D 3* under construction, on trials early 1953.

Name	*Builders*	*Launched*	*Completed*
D 1	Cartagena	11 May, 1944	18 Mar. 1947
D 2		21 Dec., 1944	April 1951
D 3		20 Feb. 1952	

2 "General" Class.

GENERAL SANJURJO.

1951, *Spanish Navy, Official.*

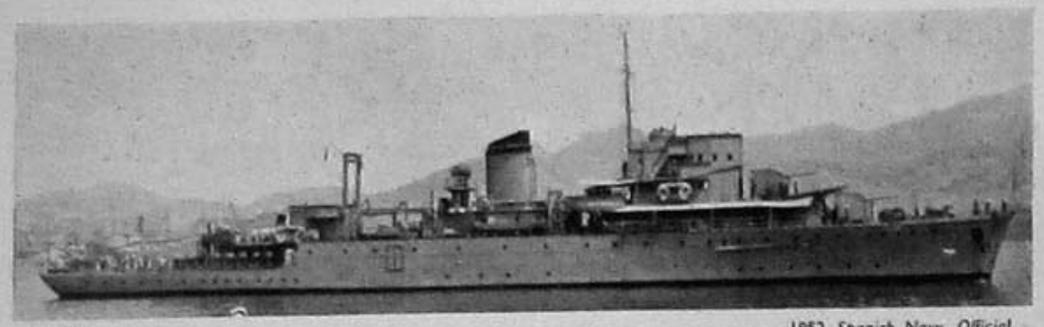
GENERAL MOLA *(ex-Evangelista Torricelli)*
GENERAL SANJURJO *(ex-Archimede)*

Displacement :	1,004 tons (*surface*), 1,259 tons (*submerged*)
Dimensions :	231½ × 22½ × 16 feet
Guns :	2—3·9 inch
Tubes :	8—21 inch (4 bow, 4 stern)
Machinery :	B.H.P. : 3,000 (Tosi Diesels), = 16 kts. (*surface*), H.P. 1,400 (Electric motors) = 8 kts. (*submerged*)
Radius :	7,000 miles (*surface*)
Complement :	55

Notes.—Both built by Franco-Tosi, Italy. Launched 27 May 1934 and 10 Dec. 1933, respectively. Purchased from Italy in 1933.

SPAIN—Minelayers and Minesweepers

Minelayers (*Minadores*).



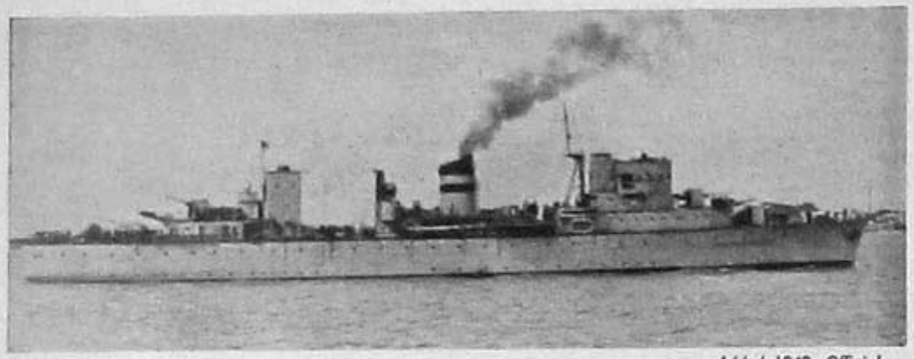
EOLO. 1952, *Spanish Navy, Official.*

EOLO — **TRITÓN**

Displacement :	1,500 tons
Dimensions :	278 × 38½ × 10 feet
Guns :	4—4·1 inch, 4—37 mm. AA., 4 M.G.
Mines :	Stowage for 70 (*Triton*, 180 to 200)
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 5,000 = 19·5 kts.
Boilers :	2 Yarrow
Oil fuel :	300 tons

Notes.—Design resembles Mexican "Queretaro" type. Dual purpose gunboats and minelayers.

Name	*Builders*	*Launched*	*Completed*
Eolo	S.E. de C.N., Ferrol	30 Aug., 1939	July, 1942
Triton		Feb., 1940	1942



VULCANO. *Added 1948, Official.*

JUPITER **MARTE** — **NEPTUNO** **VULCANO**

Displacement	2,000 tons
Dimensions :	302½ (pp.), 315 (o.a.) × 41½ × 11½ feet
Guns :	4—4·7 inch, 2—3 inch AA., 3—37 mm. AA., 2—20 mm. AA., 2 D.C.T.
Mines :	Stowage for 264 *max.*, normally less
Machinery :	2 sets Parsons geared turbines. 2 shafts. S.H.P. : 5,000 = 18·5 kts.
Boilers :	Yarrow
Oil fuel :	280 tons
Complement :	123

Note.—Multi-purpose gunboats or frigates and cruising type minelayers.

Name	*Builders*	*Launched*	*Completed*
Jupiter	S.E. de C.N., Ferrol.	14 Sep., 1935	1937
Marte		19 Jun., 1936	1937
Neptuno		19 Dec., 1937	1938
Vulcano		18 Oct. 1935	1937

Minesweepers (*Dragaminas*).

Building.

ALMANZORA **EO** **EUME** — **GUADALORCE** **GUADIARO** — **NAVIA** **TINTO**

Displacement :	615 tons *standard* (720 tons *full load*)
Dimensions :	203 × 28 × 8 feet
Guns :	1—3·5 inch, 1—37 mm. AA., 2 M.G.
Speed :	13 kts.

Notes.—7 ordered in 1947 in lieu of 12 of the 14 projected *guardacostas* of "Rigel" class. Will be of similar type to "Bidasos" class below. *Guadiaro* and *Tinto*, built by Cartagena, launched 26 Jun., 1950, on trials early 1953. Pendant Nos. *DM* 11, 13, 10, 14, 8, 12, 9, respectively.

GUADALETE. 1953, *courtesy Señor A. Aguilera.*

BIDASOA **GUADALETE** **LEREZ** — **NERVION** **SEGURA** — **TAMBRE** **TER**

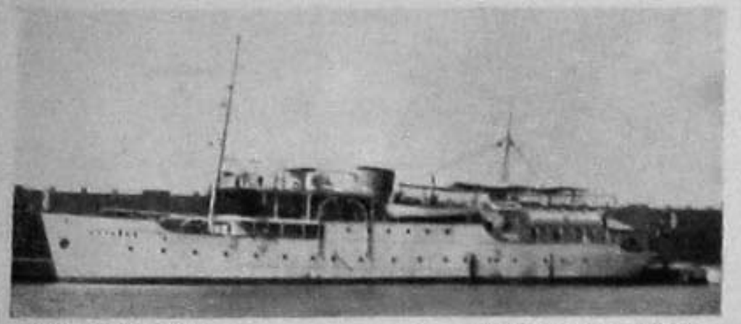
Displacement :	615 tons (704 tons *full load*)
Dimensions :	189 (pp.), 210 (o.a.) × 28 × 7½ feet
Guns :	1—4·1 inch, 1—37 mm. AA., 2—20 mm. AA.
Machinery :	Triple expansion with exhaust turbines. 2 shafts. H.P. : 2,400 = 16·5 kts.
Boilers :	2
Radius :	3,000 at 10 kts.

Notes.—German M-Boote 40 type. Named after rivers, and carry pendant numbers DM 1, 5, 3, 2, 6, 4, 7, respectively.

Name	*Builders*	*Launched*	*Completed*	*Name*	*Builders*	*Launched*	*Completed*
Bidasoa	Cartagena	15 Sep., 1943	1946	*Segura*	Cartagena	15 Apr., 1945	1949
Guadalete	Ferrol	18 Oct., 1944	1946	*Tambre*	Ferrol	18 Oct., 1944	1946
Lerez	Cartagena	21 Dec., 1944	1947	*Ter*	Cartagena	15 Apr., 1945	1948
Nervion	Cartagena	15 Apr., 1944	1946				

163R

Surveying Vessels (*Buques Planeros*).

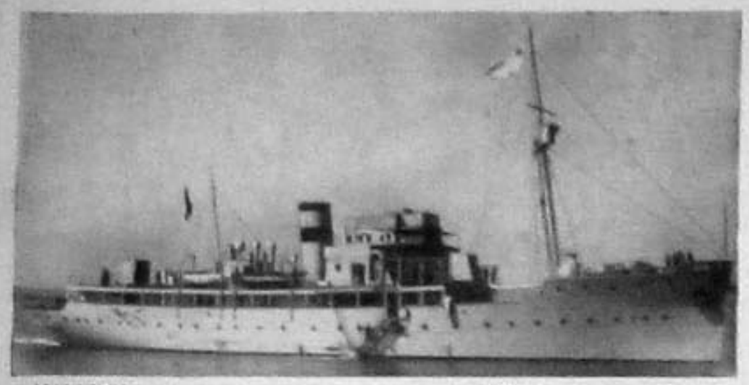


JUAN DE LA COSA. 1950, *Spanish Navy, Official.*

JUAN DE LA COSA (*ex-Artabro*)

Launched :	1935
Displacement :	770 tons (800 tons *full load*)
Dimensions :	177½ × 35½ × 8½ feet
Machinery :	Burmeister & Wain Diesels with electric drive. B.H.P. 700 = 9 kts.

Note.—Carries one aircraft.



MALASPINA. 1953, *Spanish Navy, Official.*

MALASPINA (*ex-Bausa*)	**TOFIÑO**
Displacement :	990 tons (1,200 tons *full load*)
Dimensions :	224 × 35 × 11 feet
Guns :	2—4 inch, 1—47 mm., 2 M.G. AA.
Aircraft :	1
Machinery :	Triple expansion, 2 shafts. I.H.P. : 850 = 12·5 kts.
Boilers :	2 Yarrow
Fuel :	190 tons
Complement :	130

Historical Note.—Don Alejandro de Malaspina charted the western coast of America in 1789-94.

Name	*Builders*	*Launched*
Malaspina	Matagorda, Cadiz	13 Sep., 1935
Tofiño	Ferrol	21 Aug., 1923

Surveying Tenders.

H 2	**H 3**
Displacement :	256 tons
Dimensions :	100 × 20 × 9 feet
Machinery :	H.P. : 300

Note.—Both launches employed as surveying tenders. *H 1* stricken off in 1952.

Motor Torpedo Boats (*Lanchas Torpederas*).

LT 27. 1952, *Official.*

LT 27	**LT 29**	**LT 31**	**LT 33**	**LT 35**
LT 28	**LT 30**	**LT 32**	**LT 34**	**LT 36**

Displacement :	120 tons.

Note.—Built at La Carraca, Cadiz. LT 27 on trials early 1953.

LT 23. 1948, *Official.*

LT 21	**LT 22**	**LT 23**	**LT 24**	**LT 25**	**LT 26**

Displacement :	100 tons (120 tons *full load*)
Dimensions :	114 × 16½ × 4½ feet
Guns :	2—20 mm. AA., 4 M.G.
Tubes :	2—21 inch
Machinery :	B.H.P. : 2,960 = 38 kts.
Radius :	1,000 miles at 30 kts.

Notes.—In service 1948. Ex-German S 73, S 78, S 124, S 125, S 126, S 134. Purchased August 1943.

Motor Launches (*Lanchas Rapidas*).

V 20	**V 21**
Displacement :	42 tons
Dimensions :	Length : 82 feet
Guns :	2—20 mm. AA.
Machinery :	Diesel
Speed :	19·2 kts.

Note.—Ex-German motor launches.

ESTURIÓN (*V 12*)	**LANZÓN** (*V 18*)
Displacement :	110 tons
Dimensions :	72 × 17½ × 6 feet
Machinery :	B.H.P. : 60 = 10·5 kts.

Note.—Both launched 1944.

V 1	**V 5**	**V 9**	**V 13**
V 2	**V 7**	**V 10**	**V 17**
V 3	**V 8**	**V 11**	**V 19**
V 4			

Note.—Small launches employed on fishery protection duties.

Coastguard Patrol Vessels (*Guardacostas*).

CENTINELA	**SERVIOLA**
Displacement :	270 tons
Dimensions :	119 × 22½ × 9½ feet
Guns :	1—37 mm.
Machinery :	B.H.P. : 450 = 12 kts.

Note.—Completed at A.S.T.A.B.N.O., Ferrol, 1953.

CIES	**SALVORA**
Displacement :	180 tons
Dimensions :	105 × 20½ × 8½ feet
Guns :	1—37 mm.
Machinery :	B.H.P. : 300 = 12 kts.

Notes.—Purchased in December 1952.

PROCYON. 1951, *courtesy Señor A. Aguilera.*

PEGASO	**PROCYON**
Displacement :	437 tons
Dimensions :	137½ × 27 × 9½ feet
Guns :	1—3 inch AA., 2—20 mm. AA.
Speed :	12 kts.

Note.—Both commissioned for service at Cartagena in Jan. 1951.

ALHUCEMAS	**FINISTERRE**
Displacement :	236 tons
Dimensions :	139½ × 19½ × 12½ feet
Guns :	1—42 mm., 1 M.G.
Speed :	13 kts.

Note.—Both launched 1944.

ARCILA (*ex-William Doak*)	**XAUEN** (*ex-Henry Cromwell*)
Displacement :	750 tons
Dimensions :	138½ (pp.), 148 (o.a.) × 23½ × 15½ feet (*Xauen*, 17 feet)
Guns :	2—3 inch (*Xauen*, 1—3 inch, 1—47 mm. AA.)
Machinery :	I.H.P. : 500 = 10 kts.
Coal :	200 tons
Complement :	39

Notes.—" Mersey " type trawlers. Launched 1918 by Goole S.B. & Rep. Co., and Lobnitz.

TETUAN (*ex-Grognard*)	
Displacement :	400 tons
Dimensions :	134½ × 23½ × 11½ feet
Guns :	1—3 inch, 2—3 pdr.
Machinery :	I.H.P. : 425 = 10 kts.
Coal :	80 tons
Complement :	41

Notes.—French type. Launched 1918.

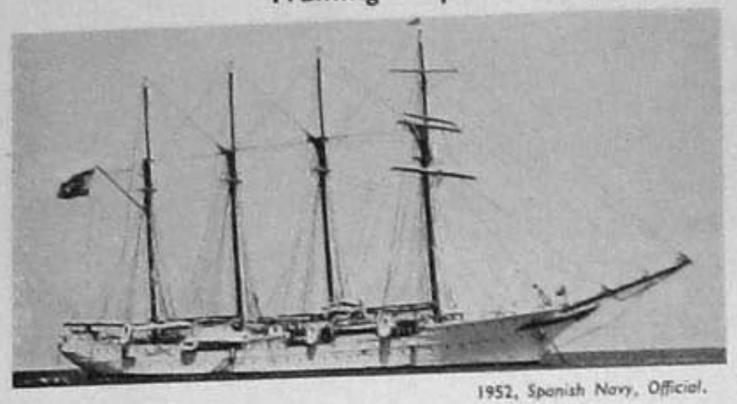
Coastguard Patrol Vessels—*continued.*

UAD MARTIN (*ex-Erne, ex-John Chivers*) **UAD QUERT** (*ex-Rother, ex-Anthony Aslett*)

Displacement :	600 tons (*Uad Quert* 640 tons)
Dimensions :	125, *Uad Quert* 130 (p.p.) × 23½ × 15½ feet
Guns :	1—3 inch (*Uad Quert* 2—3 inch)
Machinery :	I.H.P. : 500 = 9·5 kts.
Coal :	200 tons
Complement :	39

Notes.—Builders : Bow, McLachlan & Co., and Cochrane & Sons, Ltd., Selby, respectively. Launched 1917. "Castle" and "Special" type trawlers.

Training Ships.

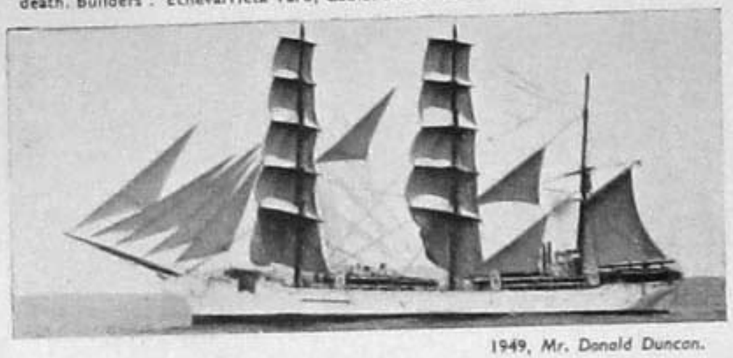


1952, *Spanish Navy, Official.*

JUAN SEBASTIAN DE ELCANO

Displacement :	3,420 tons (*at three-quarters load*)
Dimensions :	269½ (p.p.), 308½ (o.a.) × 43 × 23 feet (*full load*)
Guns :	4—6 pdr.
Machinery :	1 Sulzer Diesel motor. 1 screw. B.H.P.: 800 = 9·5 kts.
Oil fuel :	230 tons
Endurance :	10,000 miles at 9·5 kts.
Complement :	224 + 80 cadets

Notes.—Four-masted schooner. Named after the first circumnavigator of the world (1519-26) who succeeded to the command of the expedition led by Magallanes after the latter's death. Builders : Echevarrieta Yard, Cadiz. Launched 5 Mar. 1927. Completed 1928.



1949, *Mr. Donald Duncan.*

GALATEA (ex-Barque *Clarastella*)

Displacement :	2,713 tons
Dimensions :	243 × 38½ × 17½ feet
Guns :	4—6 pdr.
Machinery :	2 auxilary Diesel motors. B.H.P. : 900 = 8·5 kts.
Oil fuel :	46 tons

Notes.—Launched 1896. Purchased in Italy, 1922. Training ship for boys. *Vergen de la Caridad* discarded 1953.

Oilers.

1 New Construction.

Displacement :	7,205 tons
Dimensions :	385½ × 48½ × 20½ feet
Guns :	1—4·1 inch
Machinery :	2 Diesels. B.H.P. : 2,800 = 12 kts.

Notes.—Ordered from Factoria de Bazan, Cartagena, in December, 1952. Not yet named.

PP 1 **PP 2**

Displacement :	470 tons
Dimensions :	138 (pp.), 147½ (o.a.) × 25 × 9½ feet
Machinery :	Deutz Diesel. B.H.P. : 220 = 10 kts.
Complement :	12

Note.—Both built at Santander and launched 1939.

1935 *Photo, Capitan M. Mille.*

PLUTON (ex-*Campilo*)

Builders :	Valencia
Launched :	1931
Displacement :	4,550 tons (in light condition)
Dimensions :	342½ × 53½ × 19½ feet
Machinery :	2 sets B. & W. Diesels, built in Barcelona. E.H.P. : 2,530 = 13·5 kts.

Note.—Purchased in Dec. 1934.

Transports.

TORRELAGUNA

Displacement :	7,750 tons
Dimensions :	342 × 48 × 22 feet
Guns :	1—4·1 inch
Machinery :	1 triple expansion. I.H.P. : 2,260 = 12 kts.

Notes.—Under construction at Astilleros Echevarrieta, Cadiz. Name only temporary.

CONTRAMAESTRE CASADO

Builders :	Armstong
Launched :	26 Oct., 1930
Displacement :	7,275 tons
Dimensions :	320 (pp.), 332½ (o.a.) × 45 × 23½ feet
Guns :	4—42 mm.
Machinery :	1 set triple expansion. I.H.P. : 2,000 = 10·5 kts.
Boilers :	3 cylindrical, with Howden's forced draught
Coal :	826 tons
Complement :	107

TARIFA (*ex-Castillo Arevalo*)

Displacement :	1,325 tons
Dimensions :	270 × 35 × — feet
Machinery :	I.H.P. : 840 = 10 kts.

River Patrol Boat.

CABO FRADERA

Displacement :	44 tons
Dimensions :	74½ × 14½ × 4½ feet
Guns :	1—42 mm.
Machinery :	H.P. : 120 = 10 kts.
Complement :	11

Note.—Engaged in patrol of River Mino (Minho) on Portuguese frontier.

Patrol Craft.

RR 10 **RR 19** **RR 20** **RR 28** **RR 29**

Displacement :	454 tons
Dimensions :	124 × 27½ × 10 feet
Guns :	1—47 mm., 1—20 mm. AA.
Machinery :	1 shaft. I.H.P. : 800 = 11·5 kts.
Coal :	200 tons
Radius :	1,000 miles at 10 kts.

Note.—Former tugs.

Sea-going Tugs (*Remolcadores*).

RA 1 **RA 2**

Displacement :	934 tons
Dimensions :	184 × 32½ × 12 (*max.*) feet
Guns :	1—37 mm.
Machinery :	2 Diesels. B.H.P. : 2,500 = 15 kts.

Note.—Ordered in 1949. Under construction at Factoria de Bazan, Cartagena. Former RA1 went aground at the entrance of Marin.

RA 2 (ex-*Argos*)

Displacement :	217 tons
Dimensions :	123 × 23½ × — feet
Machinery :	I.H.P. : 750 = 10 kts.

RR 25

Builders :	La Carraca Dockyard, Cadiz
Launched :	26 Mar. 1944
Displacement :	300 tons

RR 15 **RR 16** **RR 17**

Displacement :	434 tons
Dimensions :	124 × 27½ × 10 feet
Machinery :	I.H.P. : 800 = 11·5 kts.

RR 11

Displacement :	279 tons
Dimensions :	111½ × 20 × — feet
Machinery :	I.H.P. : 600 = 11 kts.

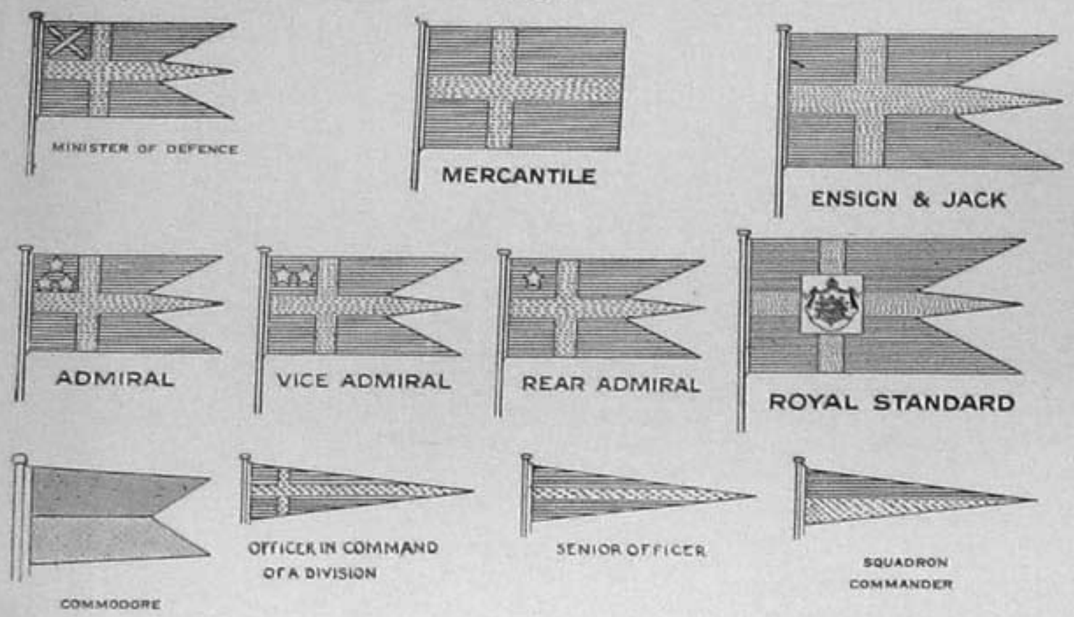
RR 12 (ex-*Cartagenero, ex-H.S. 78*) **RR 14** (ex-*Gaditano, ex-H.S. 82*)

Displacement :	235 tons
Dimensions :	83½ × 21½ × 10½ feet
Guns :	1—6 pdr.
Machinery :	H.P. : 420 = 10 kts.

Notes.—Built by Crichton & Co., South Saltney, Chester, 1918. There are a number of small tugs in service, with prefix RP.

ROYAL SWEDISH NAVY

Flags.

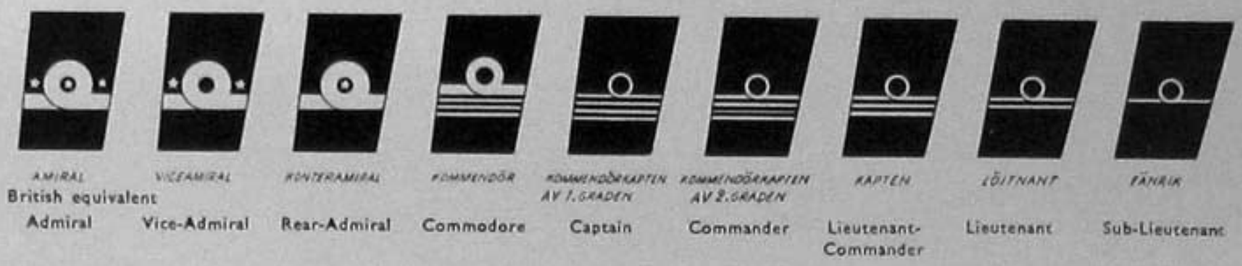


Administration.

Minister of Defence : Mr. T. Nilsson M.P.
Commander-in-Chief of the Navy (including Coast Artillery) : Vice-Admiral Helge Stromback.
President of the Navy Technical and Administrative Board : Rear-Admiral A. G. Jedeur-Palmgren.
Commander-in-Chief of Active Fleet : Rear-Admiral S. H : son Ericson.

Naval Attaché in London : Commodore B. F. Thermaenius, R.Sw.N.

Uniforms.



British equivalent	Admiral	Vice-Admiral	Rear-Admiral	Commodore	Captain	Commander	Lieutenant-Commander	Lieutenant	Sub-Lieutenant

Supply Officers have similar stripes with *white* braid following uppermost stripe.
Other branches have colour between stripes as follows :

Constructors and Engineers, purple blue ;
Surgeons, scarlet.

Navy Estimates.

1949-50, 172,252,600 kr. 1950-51, 166,997,000 kr. 1952-53, 285,000,000 kr. 1953-54, 397,819,000 kr.

Six Year Programme.

Naval programme 1952-58 :
Four destroyers of improved " Öland " class to replace the cruiser *Gotland* and two over-age destroyers in the active fleet. Furthermore 11 140-tons MTB, 15 smaller MTB, 3 submarines, 1 minelayer and 12 minesweepers are to be built under the plan and 11 elder destroyers are to be converted into frigates.

Ships.

Colour of Ships : Light grey all over, excepting submarines, frigates, minesweepers and some training ships.
Displacements : " Standard."

Personnel.

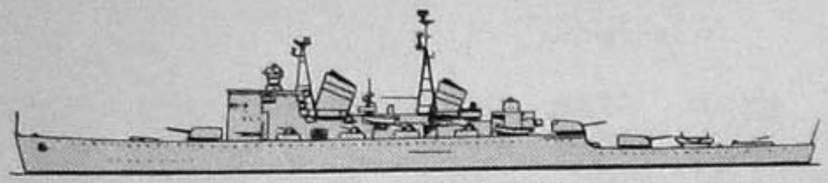
Active List of Navy and Coast Artillery, *about* 13,500 officers and men, including the conscript class of the year (5,500).

Total for Reserves cannot be estimated, as foregoing total includes certain classes called up for service.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 1,270 vessels of 2,334,194 tons gross.

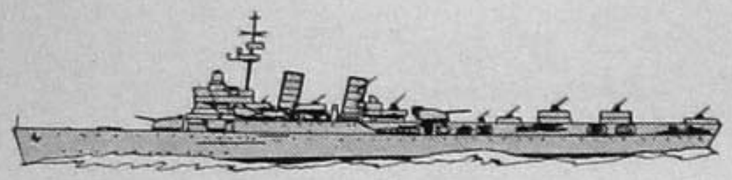
* Scale : 150 ft. = 1 inch.



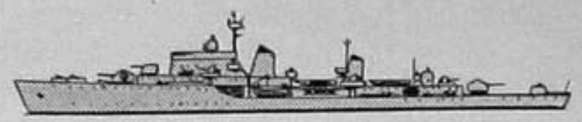
GOTA LEJON, TRE KRONOR.*

ÄLVSNABBEN.

GÄVLE *Class.**



GOTLAND.

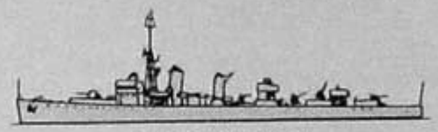


HALLAND *Class.*

KLAS HORN.*

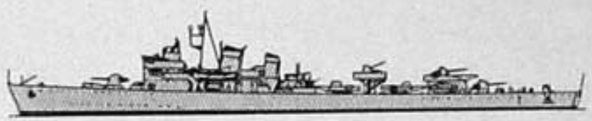
GUSTAF V.

ÖLAND *Class.**

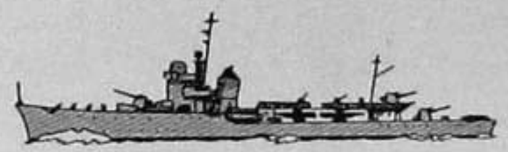


EHRENSKÖLD.*

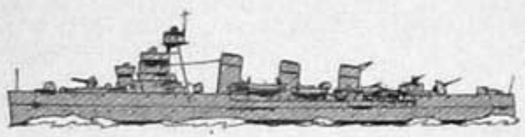
DROTTNING VICTORIA.



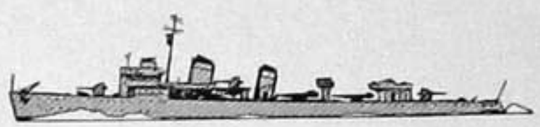
VISBY *Class.*



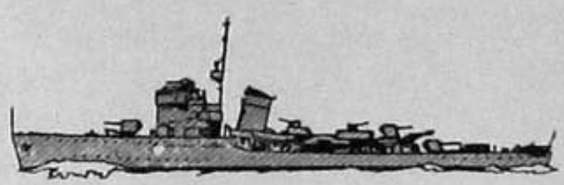
REMUS, ROMULUS.



CLAS FLEMING.



GÖTEBORG *Class.*



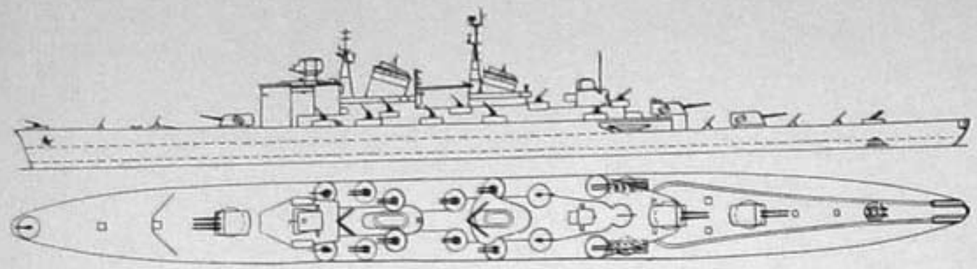
MÖJLNER *Class.*

161R

Cruisers.

GÖTA LEJON — TRE KRONOR

Displacement :	8,000 tons (8,650 tons *full load*)
Dimensions :	Length : 571 (*w.l.*), 590½ (*o.a.*) feet. Beam : 54 feet
Guns (Bofors) :	7—6 inch, 53 cal. AA., 27—40 mm. AA., D.C.T.
Tubes :	6—21 inch
Armour :	Exceptionally well protected, 3"-5" side
Mines :	160
Machinery :	2 sets De Laval geared turbines. 2 shafts. S.H.P. : 100,000 = 33 kts.
Boilers :	4 Swedish 4-drum type
Complement	618



GÖTA LEJON. 1953, *Swedish Navy, Official.*

GÖTA LEJON. 1953, *Swedish Navy, Official.*

Appearance Notes.—Light tripod masts have been stepped as in photos. Both ships now have enclosed tower bridge structure.

General Notes.—Final contracts for these ships were not signed until Feb. 1943, the original design having been considerably modified in 1942. Cost estimated at 74,000,000 kroner each. Radar control arrangements installed for 6-inch guns. Fitted for minelaying. Both ships were reconstructed in 1951-52.

Gunnery Notes.—The 6-inch guns are high angle anti-aircraft weapons and automatic. The 9—25 mm. AA. pieces formerly mounted were suppressed in 1951 and 7—40 mm. AA. weapons added.

Name	*Builder*	*Laid down*	*Launched*	*Completed*
Göta Lejon	Eriksberg	27 Sep., 1943	17 Nov., 1945	1947
Tre Kronor	Götaverken	27 Sep., 1943	16 Dec., 1944	1947

GÖTA LEJON. 1953, *Swedish Navy, Official.*

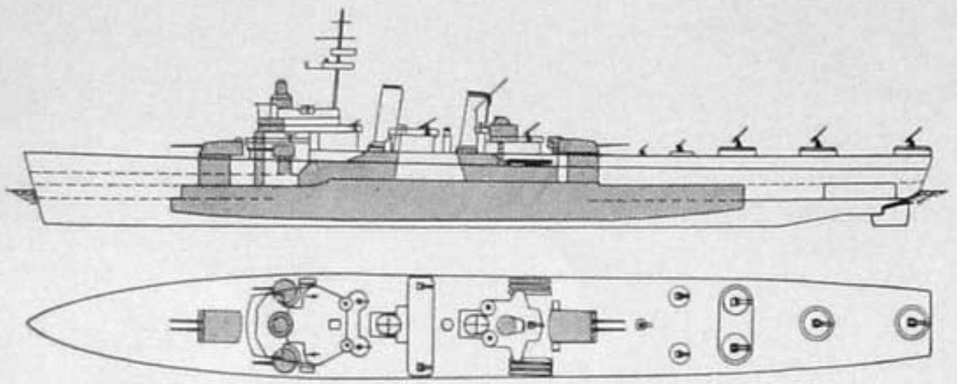
Anti-Aircraft Cruiser.

(Cadet's Seagoing Training Ship).

GOTLAND. 1949, *Official*.

GOTLAND

Builders :	Götaverken
Laid down	1930
Launched :	14 Sep., 1933
Completed :	Dec., 1934.
Displacement :	4,715 tons (4,800)
Dimensions :	Length : 426½ (*w.l.*), 437½ (*o.o.*) feet. Beam ; 50½ feet. Draught : 16½ (*mean*), 18 feet (*max.*)
Guns (Bofors) :	6—6 inch 55 cal., 4—3 inch. AA., 8—40 mm. AA., 12—25 mm. AA., 2—20 mm. AA.
Tubes :	6—21 inch (in triple deck mountings)
Armour :	2"-1¼" deck, 1½-¾" vertical bulkheads, 2"-1½" turrets, 1½"uptakes, 2"-1½" hoists and supports, 2" C.T.
Machinery :	2 sets De Laval geared turbines. 2 shafts. Designed S.H.P. : = 27·5 kts. (Trials, 34,000 = 28 kts.)
Boilers :	4 Penhoët
Oil fuel :	600 tons *normal*, 800 tons *max*.
Complement :	453 (400 to 460 as training ship)



Notes.—Cost exceeded £900,000 by date of completion. Equipped for minelaying. Refitted and rearmed for duty as an anti-aircraft cruiser in 1944. Recently employed as Cadets' Seagoing Training Ship. The Cadets' Training Cruiser *Fylgia* was scrapped in 1953.

Armoured Ships (*Pansarskepp*).

DROTTNING VICTORIA. *Added* 1951, *Dir. Ossi Janson.*

GUSTAF V. 1949, *Official*.

DROTTNING VICTORIA — GUSTAF V

Displacement :	7,120 and 7,275 tons, respectvely.
Dimensions :	Length : 397 feet (*w.l.*). Beam : 61 feet. Draught : 22½ feet (*max.*)
Guns (Bofors) :	4—11 inch, 45 cal., 6—6 inch, 50 cal., 4—3 inch AA., 6—40 mm. AA., 4—25 mm. AA.
Armour (Carnegie and Bofors) :	8" belt (amidships), 6"-3" belt (ends), 1½" deck (slopes), 4" redoubt, 8" big gun turrets, 6" barbettes 5"-2½" small turrets, 7" conning tower.
Machinery :	Westinghouse geared turbines by the Motala Company. 2 shafts.
Boilers :	6 Yarrow (coal and mixed-firing) and 2 Penhoët oil burning. Designed S.H.P. : 22,000 = 22·5 kts.
Fuel :	360 tons coal + 273 tons oil
Complement :	600

General Notes.—Appearance originally as *Drottning Victoria* but with light tripod foremast. *Drotning Victoria* refitted 1927. *Gustaf V* reconstructed 1929-30 when funnels were trunked into one and upperworks considerable remodelled. *Drottning Victoria* was reconstructed in 1933-35, when 6 of her original 12 boilers were changed for 2 oil-fired boilers. *Gustaf V* was similarly modernised in 1935-37, and her armament modified. Sister ship *Sverige* was scrapped in 1953.

Gunnery Notes.—11-inch guns load in 17 seconds. Turrets somewhat cramped, being divided by partition bulkheads. *Drottning Victoria* has two extra 6-inch guns mounted abaft forward 11-inch ; midships 6-inch on either beam is replaced by a pair of 40-mm. AA. ; and a third pair is mounted at stern.

Armour Notes.—11-inch gun shields are 8" at front, 4" on side, 4½" rear. Smaller gunshields are 5" front, 3" sides.

Name	*Builders*	*Laid Down*	*Launched*	*Completed*
Drottning Victoria	Götaverken, Göteborg	1915	15 Sep., 1917	Mar. 1921
Gustaf V	Kockums Mek. Verkstads A/B., Malmö	1914	31 Jan., 1918	Dec. 1922

160R

Destroyers (*Jagare*).

4 New Construction.

GÄSTRIKLAND **HÄLSINGLAND** **ÖSTERGOTLAND** **SÖDERMANLAND**

Displacement:	1,880 tons
Guns :	4—4·7 inch, and 40 mm.
Tubes :	6—21 inch
Speed :	35 kts.

2 "Halland" Class.

HALLAND **SMALAND**

Displacement :	2,600 tons
Dimensions :	380½ × 41 × — feet
Guns :	4—4·7 inch AA., 2—57 mm. AA., 6—40 mm. AA.
Tubes :	8—21 inch
Speed :	35 kts.
Complement :	290

Note.—Fully automatic gun turrets.

Pendant No.	*Name*	*Builders*	*Launched*
18	*Halland*	Gotaversken	16 July 1952
19	*Smaland*	Eriksberg	23 Oct. 1952

2 "Öland" Class.

ÖLAND. 1951, *Dir. Ossi Jonson.*

UPPLAND. 1949, *Official*

ÖLAND **UPPLAND**

Displacement	1,880 tons (2,110 tons *loaded*)
Dimensions :	351 × 36½ × 11¼ feet
Guns :	4—4·7 inch (d.p.), 7—40 mm. AA., 8—25 mm. AA.
Tubes :	6—21 inch (cripled)
Machinery :	De Laval geared turbines. 2 shafts. S.H.P. : 44,000 = 35 kts.
Complement :	210

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
16	*Öland*	Kockums M.V.	1943	15 Dec., 1945	1948
17	*Uppland*	Karlskrona Dockyard	1943	15 Nov., 1946	1947

4 "Visby" Class.

SUNDSVALL. 1953, *Swedish Navy, Official.*

HALSINGBORG **KALMAR** **SUNDSVALL** **VISBY**

Displacement:	1,135 tons (1,320 tons *full load*)
Dimensions :	310 (*w.l.*), 320 (*o.a.*) × 30 × 9 (*mean*, 12 (*max.*) feet
Guns :	3—4·7 inch, 4—40 mm. AA., 4—20 mm. AA., 2 D.C.T.
Tubes :	6—21 inch (tripled)
Machinery :	De Laval geared turbines. 2 shafts. S.H.P. : 36,000 = 39 kts.
Boilers :	3, of 3-drum type
Oil fuel :	150 tons
Complement :	140

No.	*Name*	*Builders*	*Laid down*	*Launched*	*No.*	*Name*	*Builders*	*Laid down*	*Launched*
13	*Hälsingborg*	Götaverken		23 Mar., 1943	12	*Sundsvoll*	Eriksberg		20 Oct., 1942
14	*Kalmar*	Eriksberg	16 Nov., 1942	20 Jul., 1943	11	*Visby*	Götaverken	29 Apr., 1942	16 Oct., 1942

6 "Göteborg" Class.

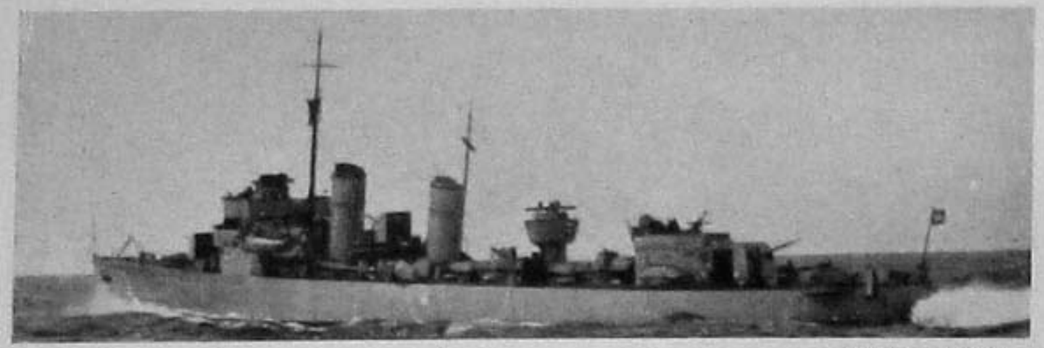
GÄVLE. 1950, *Swedish Navy, Official*

GÄVLE **GÖTEBORG** **KARLSKRONA** **MALMÖ** **NORRKÖPING** **STOCKHOLM**

Displacement :	1,023 tons (1,200 tons *full load*)
Dimensions :	304 (*w.l.*), 310¼ (*o.a.*) × 29½ × 9 (*mean*), 12 (*max.*) feet
Guns :	3—4·7 inch, 4—40 mm. 2 D.C.T.
Tubes :	6—21 inch (tripled). *Gävle* as refitted has 18 rocket launchers.
Machinery :	De Laval geared turbines. 2 shafts. S.H.P. : 32,000 = 39 kts.
Boilers :	3 Penhoët
Oil fuel :	150 tons
Complement :	130

Notes.—*Göteborg* and *Stockholm* laid down 1933. *Göteborg*, sunk through accidental explosion Sep., 1941, was subsequently salved and rebuilt. On trials following reconstruction she is reported to have exceeded original speed. *Göteborg*, *Karlskrona*, *Malmö* and *Stockholm* scheduled for conversion to A/S (to be rebuilt as frigates).

No.	*Name*	*Builders*	*Launched*	*Completed*	*No.*	*Name*	*Builders*	*Launched*	*Completed*
9	*Gävle*	Götaverken	25 Sep., 1940	1941	7	*Malmö*	Eriksberg	22 Sep., 1938	1939
5	*Göteborg*	Götaverken	14 Oct., 1935	1936	10	*Norrköping*	Eriksberg	5 Sep., 1940	1941
8	*Karlskrona*	Karlskrona	16 Jun., 1939	1940	6	*Stockholm*	Karlskrona	24 Mar., 1936	1937



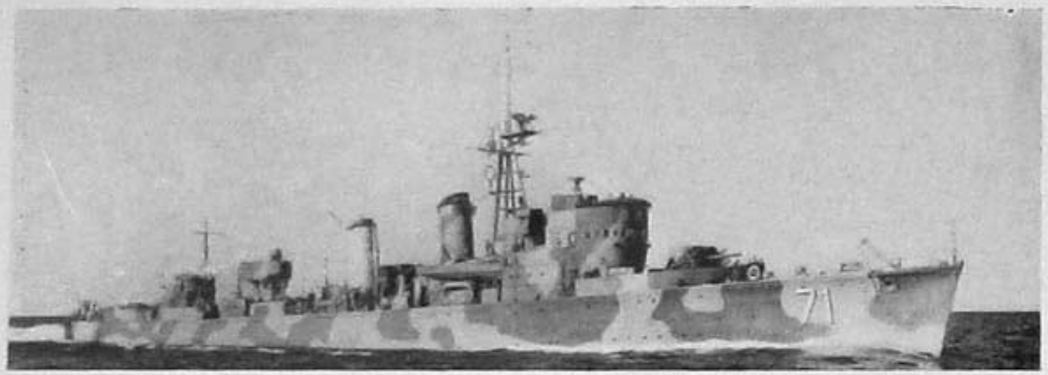
Added 1951, *Official.*

KLAS HORN

Builders :	Karlskrona Dockyard
Launched :	13 Jun., 1931
Displacement :	1,050 tons
Dimensions :	297 (*w.l.*) × 29½ × 12½ (*max.*) feet
Guns :	3—4·7 inch, 6—25 mm. AA.
Tubes :	6—21 inch (tripled). Fitted for minelaying
Machinery :	De Laval geared turbines. 2 shafts. S.H.P. : 24,000 = 35 kts.
Boilers :	3 Penhoët
Oil fuel :	150 tons
Radius :	600 miles at full speed ; 1,600 miles at 20 kts.
Complement :	125

Note.—Sunk by accidental explosion in Sept., 1941, but since salved and refitted. Scheduled for conversion to anti-submarine vessel. To be rebuilt as a frigate. Pendant No. 3.

Fast A/S Frigates (*ex-Destroyers*). Rated as *Fregatter*.



EHRENSKÖLD. 1953, *Swedish Navy, Official*

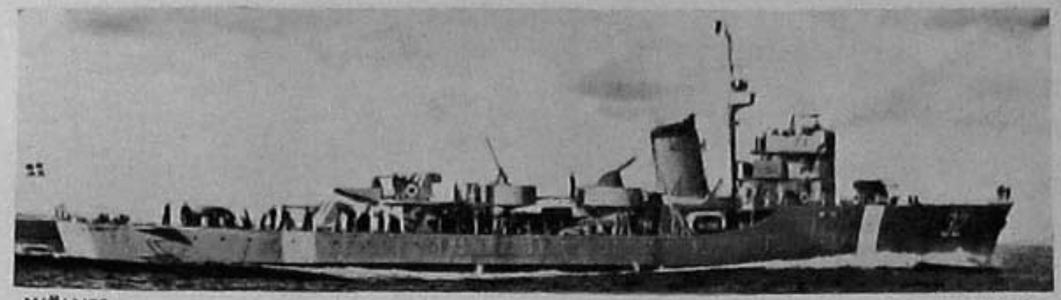
EHRENSKÖLD **NORDENSKJÖLD**

Displacement :	1,080 tons
Dimensions :	293 (*w.l.*) × 29½ × 12½ (*max.*) feet
Guns :	1 — 4·7 inch, 4—40 mm. AA.
Machinery	Geared turbines, 2 shafts. S.H.P. : 24,000 = 35 kts.
Boilers :	2 Penhoët
Oil fuel :	150 tons
Radius :	1,600 miles at 20 kts.
Complement :	125

Notes.—Former destroyers converted into anti-submarine vessels with new armament in 1951 and now officially rated as frigates.

Pendant No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
71	*Ehrensköld*	Kockums M.V., Malmö	1924	25 Sep., 1926	1927
72	*Nordenskjöld*	Götaverken, Göteborg	1924	19 Jun., 1926	1927

4 "Mjölner" Class.



MJÖLNER. *Added* 1949.

MAGNE **MODE** **MJÖLNER** **MUNIN**

Displacement :	700 tons (900 tons *full load*)
Dimensions :	243½ (*w.l.*), 256 (*o.a.*) × 26½ × 7½ feet
Guns :	3—4·1 inch AA., 2—40 mm. AA., 2—20 mm. AA.
Tubes :	3—21 inch
Machinery :	2 De Laval geared turbines. 2 shafts. S.H.P. : 16,000 = 30 kts.
Boilers :	2, of 3-drum type
Complement :	10

Notes.—Design appears to be a modification of *Romulus* type, below. Equipped for minelaying. Formerly rated as seagoing torpedo boats or coastal destroyers (*kustjagare*), but all scheduled for conversion into anti-submarine vessels. To be rebuilt as frigates

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
30	*Magne*	Götaverken	Sep., 1941	25 Apr., 1942	1942
29	*Mode*	Götaverken	Sep., 1941	11 Apr., 1942	1942
32	*Mjölner*	Eriksberg	Sep., 1941	9 Apr., 1942	1942
31	*Munin*	Öresundsvarvet	Sep., 1941	27 May, 1942	1942

2 "Romulus" Class.

ROMULUS. 1949, *Official.*

REMUS (*ex-Astore*) **ROMULUS** (*ex-Spica*)

Displacement :	870 tons (1,050 tons *full load*)
Dimensions :	255 (*w.l.*), 263½ (*o.a.*) × 27 × 7½ feet
Guns :	3—3·9 inch, 47 cal., 6—20 mm. AA.
Tubes :	4—18 inch (paired)
Machinery :	2 Tosi geared turbines, 2 shafts. S.H.P. 19,000 = 34 kts.
Boilers :	2, of 3-drum type
Oil fuel :	200 tons
Complement :	94

Notes.—Ex-Italian. Acquired 1940. Carries mines. Formerly rated as oceangoing torpedo boats or escort destroyers (*jagare*) but both are now scheduled for conversion into fast anti-submarine escort vessels. To be rebuilt as frigates.

Pendant Nos.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
28	*Remus*	Napoletani Yard, Naples	May 1933	22 Apr., 1934	June 1935
27	*Romulus*	Napoletani Yard, Naples	May 1933	11 Mar., 1934	May 1935

159R

Submarines (*Ubåtar*).

6 New Construction.

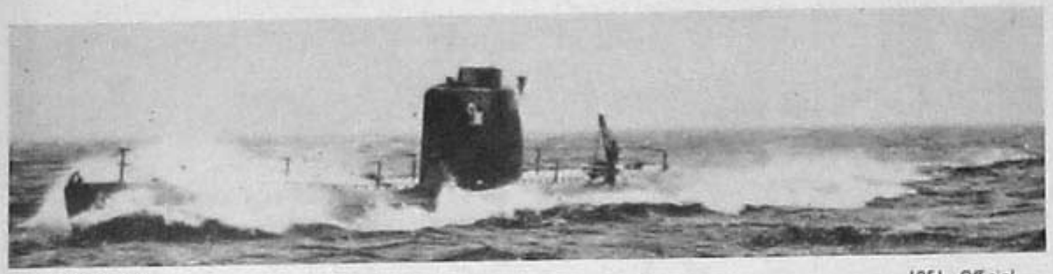
HAJEN **SÄLEN** **VALEN**

Displacement : 800 tons

Notes.—To be equipped with Schnorkel, and will have fast-diving capabilities. Three more of this class are projected.

9 "Sjölejonet" Class.

SJOHUNDEN. 1953, *Swedish Navy, Official.*



SJÖBORREN. 1951, *Official.*

DYKAREN (Dec. 7, 1940)
SJÖBJÖRNEN (Jan. 15, 1938)
SJÖBORREN (June 14, 1941)
SJÖHÄSTEN (Oct. 19, 1940)
SJÖHUNDEN (Nov. 26, 1938)
SJÖLEJONET (July 25, 1936)
SJÖORMEN (April 5, 1941)
SVÄRDFISKEN (May 18, 1940)
TUMLAREN (Sept. 7, 1940)

Displacement :	580 tons *standard*, 650 tons *surface*, 760 tons *submerged*
Dimensions :	204 × 20½ × 11 feet
Guns :	2—40 mm. Bofors
Tubes :	4—21 inch (3 bow, 1 stern)
Machinery :	2 Diesels, B.H.P. : 3,000 = 15 kts. *surface* ; 2 electric motors, H.P. : 2,000 = 10 kts. *submerged*
Complement :	32

General Notes.—All built by Kockums Mek. Verkstad A/B., Malmö. Launch dates above. Have all been streamlined and modernised

Appearance Notes.—Distinctive letters painted on C.T., are: Dy, *Dykaren*; Nj, *Näcken*; Nj, *Najad*; Np, *Neptun*; Sbj, *Sjöbjörnen* Sbo, *Sjöborren*; Sf, *Svärdfisken*; Shä, *Sjöhästen*; Shu, *Sjöhunden*; Sle, *Sjölejonet*; Sor, *Sjöormen*; Tu, *Tumlaren*.

9 "U" Class.

U 1. 1953, *Swedish Navy, Official.*

U 9. 1951, *Official.*

U 1 (June 14, 1941)
U 2 (May 16, 1942)
U 3 (June 11, 1942)
U 4 (June 5, 1943)
U 5 (July 8, 1943)
U 6 (Aug. 18, 1943)
U 7 (Nov. 23, 1943)
U 8 (April 25, 1944)
U 9 (May 23, 1944)

Displacement :	400 tons *surface*
Dimensions :	155½ (*w.l.*) × 17½ × 14 feet
Guns :	1—20 mm.
Tubes :	4—21 inch
Complement :	23

Notes.—All built by Kockums Mek. Verkstad (*U 1, U 4, U 5, U 6, U 7*), and by Karlskrona Naval Dockyard (*U 2, U 3, U 8, U 9*). Launch dates above. All have been streamlined (see photos of U1 and U9).

3 "Najad" Class.

NEPTUN. 1952, *Official.*

NÄCKEN **NAJAD** **NEPTUN**

Displacement :	550 tons *standard*, 600 tons *surface*, 760 tons *submerged*
Dimensions :	198½ × 20 × 10 feet
Guns :	1—40 mm. Bofors AA.
Tubes :	4—21 inch (bow)
Mines :	20. Fitted for minelaying.
Machinery :	2 Diesels, B.H.P. : 3,000 = 16 kts. 2 shafts. 2 electric motors = 10 kts. submerged
Complement :	32

Notes.—These three mine-laying submarines are more modern versions of the "Delfinen" type which were scrapped in 1953.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Näcken	Kockums Mek, Verkstead A/B., Malmö	Nov. 1941	26 Sep 1942	Mar. 1943
Najad		Feb. 1942	26 Sep 1942	May 1943
Neptun		Mar. 1942	17 Nov 1942	June 1943

SWEDEN—Minelayers, Radar Training Ship, Submarine Depot Ship, M.T.B.s

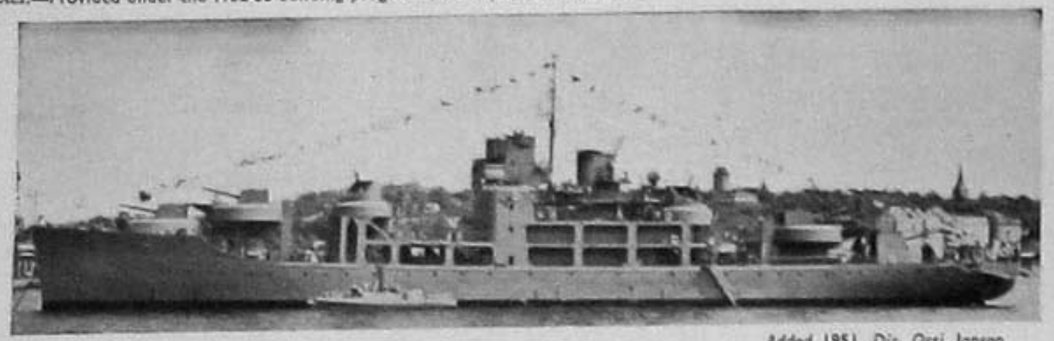
Cruiser Minelayers (*Minfartyg*).

1 New Construction.

ÄLVSBORG

Displacement :	2,000 tons
Speed :	20 kts.

Notes.—Provided under the 1952-58 buliding programme to replace *Clas Fleming*.



Added 1951, *Dir. Ossi Janson.*

ÄLVSNABBEN

Builders :	Eriksberg
Laid down:	Oct., 1942
Launched :	19 Jan., 1943
Displacement :	4,000 tons
Dimensions :	317½ (w.l.), 334½ (o.a.) × 44½ × 16 feet
Guns :	4—6 inch, 8—40 mm. AA., 6—20 mm. AA.
Complement :	255

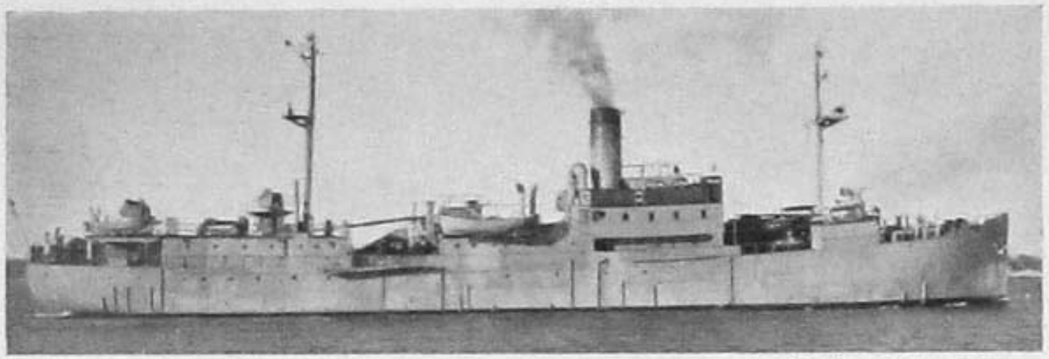
Notes.—Was completed on mercantile hull in April 1943. Can be used as Submarine Parent Ship or Minesweeper Depot Ship.

CLAS FLEMING

Builders :	Bergsund Co., Stockholm
Launched :	1912
Displacement :	1,735 tons
Dimensions :	282 × 34 × 14 feet
Guns :	4—4·7 inch, 50 cal., 3—40 mm. AA.
Mines :	250
Machinery :	Diesel-turbine installation by Gotaverken. 2 shafts. B.H.P. : 7,000 = 20 kts.
Complement :	175

Notes.—Has gas-turbine propulsion, the diesel made compressed air and exhaust gases from the diesels working on the turbines.

Radar Training Ship.



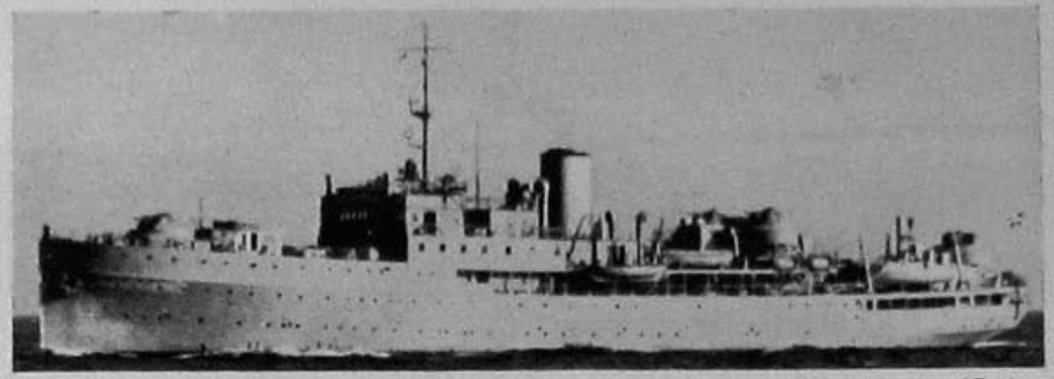
1950 *Swedish Navy, Official.*

PRINS CARL (*ex-Munin*)

Displacement :	2,140 tons
Dimensions :	262½ × 37 × 16½ feet
Speed :	12 kts.
Complement :	60

Notes.—Ex-hospital ship. Launched in 1931 and converted into a Radar Training Ship in 1949.

Submarine Depot Ship (*Ubåts depåfartyg*).



1953, *Swedish Navy, Official.*

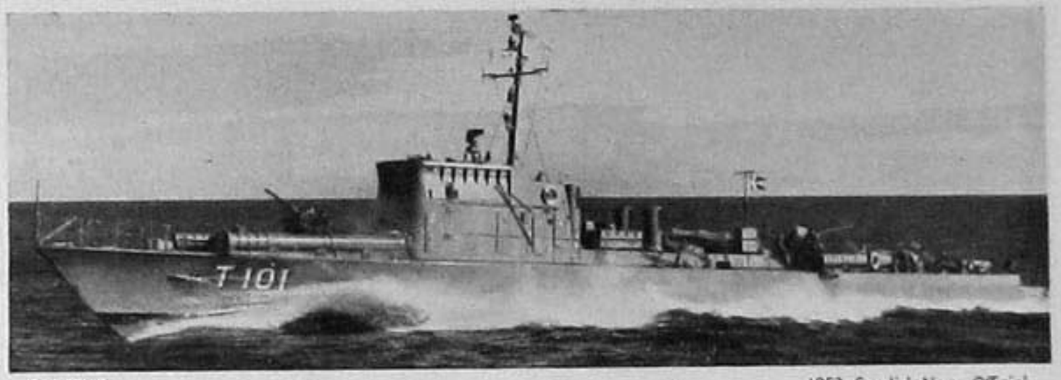
PATRICIA (*ex-Patris I*)

Builders:	Swan, Hunter
Launched:	1926
Displacement :	4,950 tons
Dimensions :	335 × 47½ × 20 feet.
Guns :	8—40 mm. AA., 2—20 mm. AA.
Machinery :	Triple expansion. I.H.P. : 2,900 = 15 kts.
Boilers :	2 oil fired

Notes.—Acquired in 1940. Has been reconstructed to increase accommodation.

Motor Torpedo Boats (*Motortorpedbåtar*).

12 M.T.B.—M.G.B. Convertibles.



PERSEUS.

1953, *Swedish Navy, Official.*

ALDEBARAN (T 107)
ALTAIR (T 108)
ANTARES (T 109)
ARCTURUS (T 110)
ARGO (T 111)
ASTREA (T 112)
PERSEUS (T 101)
PLEJAD (T 102)
POLARIS (T 103)
POLLUX (T 104)
REGULUS (T 105)
RIGEL (T 106)

Displacement	140 tons
Dimensions :	147½ × 19 × — feet
Guns :	2—40 mm.
Tubes :	4—21 inch

Notes.—*Perseus* launched in 1950, as a new convertible type M.T.B. of experimental design. Eleven similar vessels are projected.

Motor Torpedo Boats (*continued*).

T 42	T 45	T 48	T 51	T 54
T 43	T 46	T 49	T 52	T 55
T 44	T 47	T 50	T 53	T 56

Displacement : 40 tons

T 38. 1953, *Swedish Navy, Official.*

T 32	T 34	T 36	T 38	T 40
T 33	T 35	T 37	T 39	T 41

Displacement :	40 tons
Dimensions :	75½ × 17 × — feet
Guns :	1— 0 mm.
Tubes :	2—21 inch

Notes.—Launched 1951-52. Of improved T 31 design. Fifteen more, T 42-56, under construction

T 21	T 23	T 25	T 27	T 29	T 31
T 22	T 24	T 26	T 28	T 30	

Displacement :	27 tons
Dimensions :	65½ × 15½ feet
Guns :	1—20 mm.
Tubes :	2—21 inch
Machinery :	2 Isotta-Fraschini motors. H.P. : 3,450 = 40 kts.

Notes.—Built by Kockums M.V. T 21—26 launched 1942. T 27—31 launched 1943.

T 15. 1953, *Swedish Navy, Official.*

T 15	T 16	T 17	T 18

Displacement :	22 tons
Dimensions :	61½ × 15 feet
Guns :	1—20 mm.
Tubes :	2—18 inch
Machinery :	2 Isotta-Fraschini motors. H.P. : 2,300 = 40 kts.

Notes.—Built by Kockums M.V. Launched 1941. Above 15 boats are of Swedish naval design. They are constructed of welded steel, instead of wood, as in the case of earlier craft.

Minesweepers.

1953, *Swedish Navy, Official.*

M 61	M 63	M 65	M 67
M 62	M 64	M 66	M 68

ARKÖ (M 57)	**ORNÖ** (M 55)	**TÄRNÖ** (M 52)
HANÖ (M 51)	**SPÄRÖ** (M 58)	**TJURKÖ** (M 53)
IGGÖ (M 60)	**STURKO** (M 54)	**UTÖ** (M 56)
KARLSÖ (M 59)		

Displacement :	250 tons
Dimensions :	131 × 23 × — feet
Guns :	2—40 mm. AA.
Speed :	14·5 kts.

Note.—Six, M 51-56 under construction and twelve, M 57-68, projected.

ÖRSKÄR 1953, *Swedish Navy, Official.*

3 *Eriksberg*	2 *Lindholmen*
BREDSKÄR (Dec. 12, 1940)	**ÖRSKÄR** (March 31, 1941)
BREMÖN (June 18, 1940)	**RAMSKÄR** (Oct. 28, 1940)
HOLMÖN (Sept. 5, 1940)	
1 *Finnboda*	2 *Oskarshamn*
GRÖNSKÄR (Oct. 30, 1940)	**SANDÖN** (Aug. 15, 1940)
	ULVÖN (April 29,1941)
2 *Götaverken*	2 *Öresundsvarvet*
VEN (Oct. 7, 1940)	**KOSTER** (Oct. 10, 1940)
VINGA (Oct. 7, 1940)	**KULLEN** (Oct .29, 1940)

Displacement :	430 tons (500 tons *full load*)
Guns :	2—4·1 inch, 2—25 mm. AA.
Speed :	17 kts.
Complement :	37

Notes.—Otherwise of similar design to *Arholma* and *Landsort*, in next column. All completed in 1940-41. Builders and launch dates above.

Minesweepers—*continued.*

LANDSORT. 1949, *Official.*

ARHOLMA (April 27, 1937) **LANDSORT** (Nov. 26, 1937)

Displacement :	430 tons *standard* (500 tons *full load*)
Dimensions :	178½ (*w.l.*), 186 (*o.a.*) × 24½ × 7 (*max.*) feet
Guns :	2—4·1 inch, 2—25 mm. AA.
Machinery :	De Laval geared turbines. S.H.P. : 3,200 = 19 kts.
Oil fuel :	60 tons
Complement :	37

Notes.—Both built at Karlskrona. Launch dates above.

KAPAREN. 1949, *Official.*

JÄGAREN (Dec., 1932) **SNAPPHANEN** (Nov. 2, 1933)
KAPAREN (March 3, 1933) **VÄKTAREN** (April 25, 1934)

Displacement :	310 tons
Dimensions :	170½ × 19½ × 8½ feet
Guns :	2—3 inch, 2—25 mm. AA., 2 D.C.T.
Machinery :	De Laval geared turbines. S.H.P. : 3,600 = 23 kts.
Boilers :	Vanson-Normand
Oil fuel :	50 tons
Complement :	37

Notes.—All built at Karlskrona. Launch dates above. Pendant Nos. 41 to 44, respectively.

Coastal Minesweepers.

ORUST		TJÖRN
	Displacement :	100 tons
	Dimensions :	62 × 19 × 4½ feet
	Guns :	2—25 mm. AA.

Note.—Both launched 1948.

M 25. 1953, *Swedish Navy, Official.*

M 15	M 18	M 21	M 23	M 25
M 16	M 19	M 22	M 24	M 26
M 17	M 20			

Displacement :	70 tons
Dimensions :	85½ × 16½ × 4½ feet
Guns :	1—20 mm.
Machinery :	Diesel. B.H.P. : 600 = 13 kts.

Note.—All launched 1941.

M 11. 1953, *Swedish Navy, Official.*

M 3	M 6	M 9	M 11	M 13
M 4	M 7	M 10	M 12	M 14
M 5	M 8			

Displacement :	50 tons
Dimensions :	77 × 16½ × 4½ feet
Guns :	1—20 mm. AA.
Machinery :	Diesel. B.H.P. : 400 = 13 kts.

Note.—All launched 1940-41. M 1 and M 2 were scrapped in 1953.

Patrol Vessels. (Trawler Type)

GRANAT	HARPUN	KANON	KRUT
	Displacement :	400 tons	
	Dimensions :	110 × 23 × 14 feet	
	Guns :	1—57 mm.	
	Speed :	10 kts.	

Notes.—Launched 1925. All four converted trawlers.

Patrol Vessels (*Vedettbåtar*).

1946, *Official.*

V 51 (1944)	V 53 (Dec. 4, 1944)	V 55 (Sep. 19, 1944)	V 57
V 52 (Oct. 4, 1945)	V 54 (Oct. 4, 1945)	V 56 (Aug. 2, 1945)	V 58

Displacement :	125 tons
Dimensions :	98 × 17½ × 6 feet
Guns :	1—20 mm., 1 M.G.
Machinery :	Triple expansion. H.P. : 400 = 12 kts.
Boiler :	Watertube (coal-burning)

Note.—Launch dates above. V 57 and V 58 similar to V 51—56 but have diesel machinery.

EDÖFJÄRD	KANHÖLMSFJÄRD	LIDÖFJÄRD
Displacement :	28 tons	
Dimensions :	69 × 12½ × 5 feet	
Guns :	1—37 mm.	
Speed :	11·5 kts.	

Notes.—Launched 1933. Pendant Nos. : J 76, J 74, J 75, respectively.

BAGGENSFJÄRD. 1946, *courtesy Swedish Defence Staff.*

ASKÖFJÄRD	BAGGENSFJÄRD	NÄMNDÖFJÄRD
Displacement :	25 tons	
Dimensions :	62½ × 12½ × 5 feet	
Guns :	1—37 mm.	
Speed :	11·5 kts.	

Notes.—Launched 1932. Pendant Nos. : J 71, J 72, J 73, respectively.

V 5	V 8	V 11	V 14
	Displacement :	50 tons	
	Dimensions :	105 × 13½ × 6½ feet	
	Guns :	1—37 mm.	
	Machinery :	H.P. : 800 = 15 kts.	
	Coal :	11 tons	
	Complement :	14	

Notes.—Ex-torpedo boats. Launched 1906-08. All above boats manned by Coast Artillery.

V 42	
Launched :	1902
Displacement :	54 tons
Dimensions :	66½ × 16½ × 6 feet
Guns :	1—37 mm.
Speed :	10 kts.

Communication Ship (*Förbindelsefartyget*).

1953, *Swedish Navy, Official.*

MARIEHOLM

Completed :	1934
Displacement :	1,445 tons
Dimensions :	210 × 32½ × 14 feet
Guns :	2—40 mm. AA.
Speed :	12 kts.

Notes.—Former passenger ship, converted during Second World War to serve as a Base Communication Centre for the C-in-C. Active Fleet. Recently used as a Staff Ship for the C-in-C. in winter time, flying his flag.

Patrol Launches.

SVK 1	SVK 2	SVK 3	SVK 4	SVK
	Displacement :	19 tons		
	Dimensions :	55½ × 12 × 4 feet		
	Guns :	1—20 mm. AA.		
	Speed	11 kts.		

Note.—All launched 1944.

Mining Tenders (*Minutläggare*).

MUL 14, MUL 15
MUL 12, MUL 13 (launched 1952). } Displacement: 200 tons. Speed: 10·5 kts.
MUL 11 (1946). Displacement : 175 tons. Speed : 10 kts.
MUL 10 (1939). Displacement : 158 tons. Speed : 9·5 kts.
MUL 9 (1912). Displacement : 120 tons. Speed : 9 kts.
MUL 7, MUL 8 (1904-5). Displacement : 120 tons. Speed : 7·5 kts
MUL 3 (1879). Displacement : 190 tons. Speed : 6·5 kts.

Guns : 2—20 mm. AA.

Note.—Manned by Coast Artillery personnel. *MUL* 14 and *MUL* 15, under construction.

Salvage Vessel (*Bärgningsfartyg*).
(Diving and Submarine Rescue).

BELOS

Launched :	1885
Displacement :	755 tons
Dimensions :	167½ × 26 × 13½ feet
Guns :	1—20 mm. AA.
Machinery :	Compound. I.H.P. : 890 = 11 kts.

Notes.—Acquired 1941. Equipment includes diving chamber and apparatus for raising sunken submarines.

157R

Surveying Vessels (*Sjömätningsfartyg*).

RAN

Launched:	1945
Displacement :	230 tons
Dimensions	98½ × 23 × 8½ feet

1953, *Swedish Navy, Official.*

GUSTAF AF KLINT

Launched :	1941
Displacement :	650 tons
Dimensions :	154 × 28½ × 15½ feet
Machinery :	Diesel
Speed :	10 kts.

KOMPASS

Launched:	1938
Displacement :	50 tons
Dimensions :	55½ × 17½ × — feet
Speed :	7·5 kts.

JOHAN NORDENANCKAR

Launched	1924
Displacement :	210 tons
Dimensions :	98½ × 22½ × 9½ feet
Speed :	8 kts.

PETER GEDDA

Launched :	1924
Displacement :	135 tons
Dimensions :	82 × 18 × 7 feet
Speed :	6 kts.

EJDERN

Launched	1916
Displacement :	80 tons
Dimensions:	78½ × 15½ × 7½ feet
Speed:	8 kts.

SVENSKSUND

Launched	1891
Displacement :	415 tons
Dimensions :	124½ × 26 × 12 feet
Guns :	2—57 mm., 1—20 mm.
Machinery :	H.P. : 400 = 12 kts.
Coal :	50 tons

Note.—Reconstructed in 1942.

SVALAN

Launched:	1881
Displacement :	140 tons
Dimensions :	101½ × 17½ × 9 feet
Speed :	8 kts.

Landing Craft.

L 51 **L 52** **L 53** **L 54** **L 55**

Displacement :	30 tons
Dimensions :	46 × 15½ × — feet

ANE **BALDER** **LOKE** **RING**

Displacement :	135 tons
Dimensions :	91½ × 26½ × — feet

Tenders.

STARKODDER (*ex-Graham*) **STYRBJÖRN** (*ex-Klo*)

Displacement :	375 and 350 tons, respectively
Dimensions :	100 × 23 × 14 feet, and 104½ × 22 × 14 feet, respectively
Guns :	1—20 mm. AA., 1 M.G.
Machinery :	Reciprocating. I.H.P. : 750 = 11 and 10·5 kts., respectively

Notes.—Ex-whalers, built in Norway, launched 1925 and 1923, respectively, purchased in 1935.

SÖKAREN **SVEPAREN** **SPRÄNGAREN**

Displacement:	185 tons
Dimensions:	85½ × 23 × 10 feet
Guns :	1—25 mm., 1 M.G.
Machinery :	H.P. : 400 = 10 kts.
Complement:	18

Notes.—Launched 1917-18. Pendant Nos. are now 47, 48, 49, respectively, which have been painted on bows.

Oilers (*Tankfartyg*).

TANKAREN (*ex-Lister*)

Launched :	1941
Measurement :	300 tons *deadweight*
Dimensions :	118 × 22 × — feet
Speed :	10 kts.

1947 *Official*

OLJAREN (*ex-Martha*)

Launched :	1939
Displacement	1,100 tons (695 tons cargo capacity)
Dimensions :	179 × 28 × 11 feet
Guns :	2—25 mm. AA.
Speed :	9 kts.

ELDAREN (*ex-Muron*)

Launched :	1938
Displacement :	875 tons (535 tons cargo capacity)
Dimensions :	169 × 25½ × 10 feet
Guns :	2—25 mm. AA.
Speed :	9·5 kts.

BRÄNNAREN

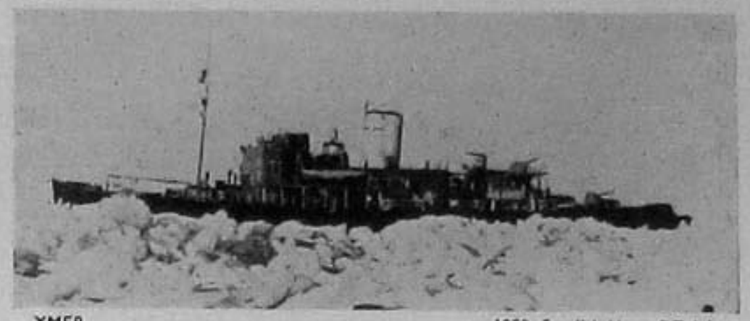
Builders :	Kockums M.V. A/B., Malmö
Launched :	1933
Displacement :	1,100 tons (610 tons cargo capacity)
Dimensions :	165 (*pp.*), 173 (*o.a.*) × 29 × 12 feet
Guns :	2—25 mm. AA.
Machinery :	Atlas Diesels. H.P. : 500 = 10 kts.

Icebreakers (*Isbrytarfartyg*).

THULE

Launched :	1951
Displacement :	1,850 tons
Dimensions :	187 (*pp*), 205 (*o.a.*) × 50 × 16 feet
Machinery :	Diesel-electric. 3 shafts (1 forward). B.H.P. : 4,950 = 16 kts.

Notes.—Another new icebreaker of 5,000 tons, 10,500 H.P. = 17 kts. is under construction.

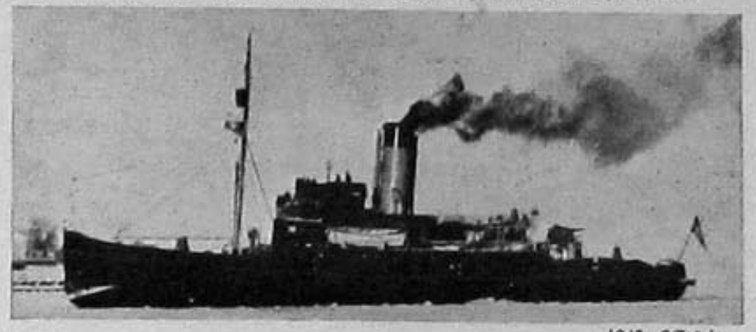


YMER. 1953, *Swedish Navy, Official.*

YMER

Builders :	Kockums M.V. A/B., Malmö
Launched :	1933
Displacement :	3,465 tons (4,350 tons *full load*)
Dimensions :	240 (*w.l.*), 258 (*o.a.*) × 63½ × 21 feet
Guns :	4—3 inch AA., 2—40 mm. AA., 4—25 mm. AA.
Machinery :	6 Atlas Diesels driving electric generators. H.P. : 9,000 = 16 kts.
Complement :	44

Note.—*Ymer* was first large icebreaker to be given Diesel-electric propulsion.



1949, *Official.*

ATLE

Launched :	1926
Displacement :	1,750 tons
Dimensions :	194½ (*w.l.*), 207 (*o.a.*) × 55½ × 20½ feet
Guns :	4—57 mm. AA., 4 M.G.
H.P. :	4,000 = 15 kts.
Complement:	4-

Sail Training Ships (*Skonerter*).

FALKEN (June 12, 1947) **GLADAN** (Nov. 14, 1946)

Displacement :	220 tons
Dimensions :	93 (*w.l.*) 129½ (*o.a.*) × 23½ × — feet
Machinery :	Auxiliary Diesel of 50 B.H.P.

Notes.—Schooners. Launch dates above.

ROYAL THAI NAVY

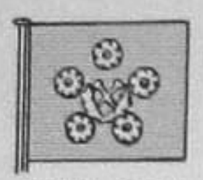
Flags.

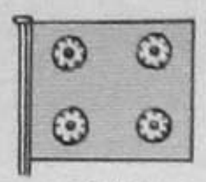
ROYAL STANDARD

"TRAIRONGA" NATIONAL FLAG

NAVAL ENSIGN

JACK


ADMIRAL OF THE FLEET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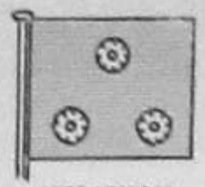
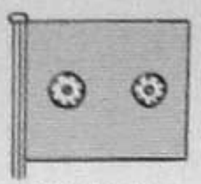
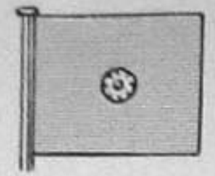
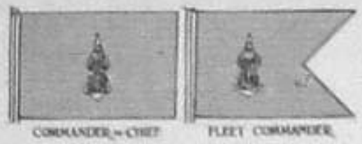

VICE-ADMIRAL


REAR-ADMIRAL


COMMODORE

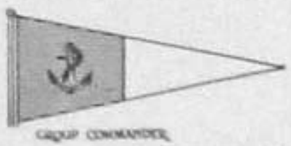

COMMANDER-in-CHIEF

FLEET COMMANDER

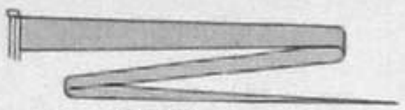
SQUADRON COMMANDER

COMMANDING OFFICER of a SHORE STATION

DIVISION COMMANDER


GROUP COMMANDER

SENIOR OFFICFR


PENDANT

Administration.

Minister of Defence : Admiral of the Fleet Plaek Pibulsonggram.
Commander-in-Chief of Navy : Vice-Admiral Luang Yuthasastra Kosol
Chief of Naval Staff : Vice-Admiral Luang Yuthasastra Kosol (*Acting*)

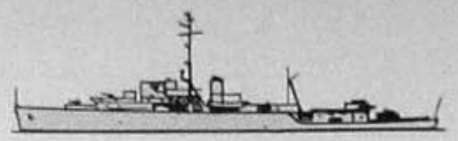
Naval Attoché, London : Captain Sawasdi Kongsiri

Personnel.

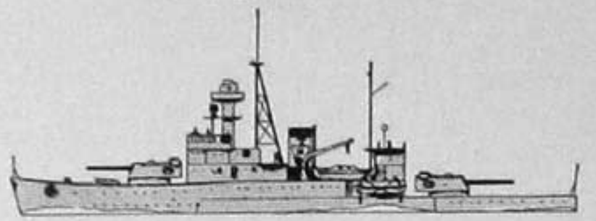
1953: 1,100 officers and 10,000 ratings.

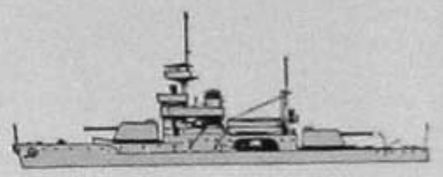
Uniforms.

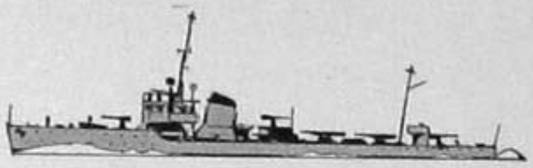
Silhouettes.


PRASAE, TACHIN.

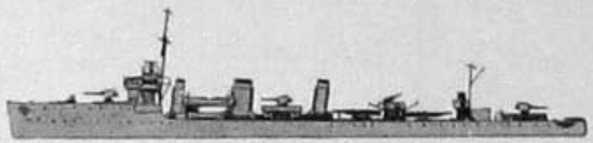
MAEKLONG.

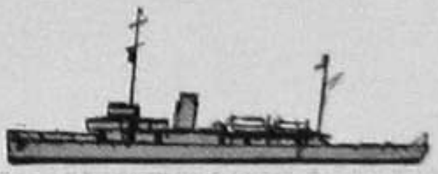

SRI AYUTHAYA *Class.*


RATANAKOSINDRA.


TRAD *Class.*

PHOSAMTON.


PRA RUANG.


CHOW PRAYA.

Frigates.

TACHIN. 1953, *Royal Thailand Navy Official.*

PRASAE (*Ex-U.S.S. Gallup, PF 47*). **TACHIN** (*Ex-U.S.S. Glendale, PF. 36*).

Displacement :	1,430 tons (2,100 tons *full load*)
Dimensions :	304 (*o.a.*) × 37½ × 13½ (*max.*) feet
Guns :	3—3 inch, 50 cal. d.p. ; 10—40 mm. and 20 mm. AA.
Machinery :	Triple expansion, 2 shafts. I.H.P. : 5,500 = 20 kts.
Complement :	180

Notes.—Former United States patrol frigates. Built by Consolidated Steel Corporation, Los Angeles. Launched 17 Sept., and 28 May, 1943, respectively. Delivered to Royal Thailand Navy, 29 Oct. 1951. Of similar design to British frigates of "River" class. Present pendant Nos. 1 and 2.

1952, *Official.*

MAEKLONG

Displacement :	1,400 tons
Dimensions :	269 × 34½ × 10½ (*mean*) feet
Guns :	4—4·7 inch, 2—40 mm. AA., 2—20 mm. AA.
Tubes :	4—18 inch
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,500 = 17 kts.
Boilers :	2 water-tube
Oil fuel :	487 tons
Complement :	155 (as training ship)

Notes.—Built by Uraga Dock Co. Launched 27 Nov. 1936. Delivered in June, 1937. Fitted for minesweeping. Employed as training ship.

Frigates—*continued.*

BANGPAKONG. *Added 1951, Royal Thai Navy, Official.*

BANGPAKONG (*ex-Gondwana, ex-Burnet*)

Builders :	Ferguson Bros.
Launched :	31 May, 1943
Displacement :	980 tons (1,350 tons *full load*)
Dimensions :	193 (*pp.*), 203½ (*o.a.*) × 33 × 13½ (*mean*) feet
Guns :	1—4 inch, 7—20 mm. AA.
A/S Weapons :	4 D.C.T.
Machinery :	Triple expansion. I.H.P. : 2,880 = 16 kts.
Boilers :	2, of 3-drum type
Oil fuel :	282 tons
Complement :	101 (129 war)

Notes.—Former British corvette of the "Flower" class which served in the Indian Navy before she was transferred to Thailand. Sister ship *Prasae* ran aground heavily on the East coast of Korea two miles north of the 38th Parallel while engaging in the bombardment of the enemy shore bases behind the North Korean lines on 7th January, 1951, and had to be destroyed by the United Nations Fleet on 13th January.

Training Ship (ex-Destroyer).

PRA RUANG (*ex-H.M.S. Radiant*)

Builders :	Thornycroft.
Launched :	5 Nov., 1916
Displacement :	1,035 tons
Dimensions :	274 (*o.a.*), 265 (*pp.*) × 27½ × 11 (*max.*), 8½ (*mean*) feet
Guns :	3—4 inch, 2—40 mm. AA., 2—20 mm., 1 M.G.
Tubes :	4—21 inch, in two twin deck mountings.
Machinery :	Brown-Curtis geared turbines. 2 shafts. S.H.P. 29,000 = 35 kts. (now much less)
Boilers :	3 Yarrow
Oil fuel :	*about* 285 tons (*max.*)
Complement :	100

Notes.—Former British destroyer. Purchased July, 1920.

THAILAND—Coast Defence Ship, Armoured Gunboat, Torpedo Boats

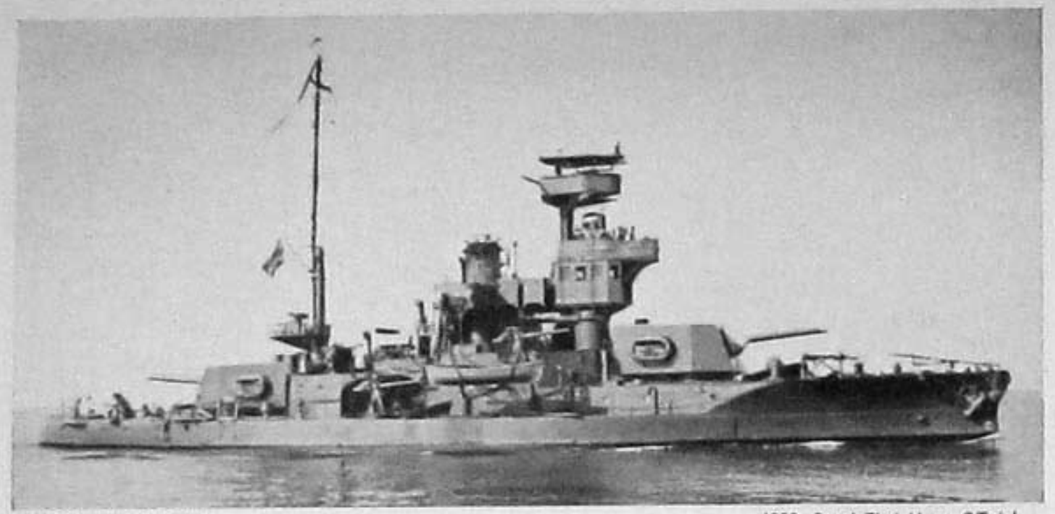
Coast Defence Ship.

THONBURI

Builders:	Kawasaki Co., Kobe
Laid down:	1936
Displacement:	2,015 tons
Dimensions:	246 × 47½ × 13¾ feet
Guns:	4—8 inch, 4—3 inch AA., 4—40 mm. AA.
Armour:	2½" side, 1½"-1" deck
Machinery:	2 sets M.A.N. Diesels. 2 shafts. B.H.P.: 5,200 = 15·5 kts.
Oil fuel:	150 tons
Complement:	155

Notes.—Apparently an expansion of *Ratanakosindra* design. *Thonburi*, launched 31 Jan., 1938, in action off Koh Chang in 1941, with a French squadron including the cruiser *Lamotte-Picquet*, was heavily damaged and driven ashore. Though her hull was salved, she is not in service and is officially described as decommissioned. *Sri Ayuthaya*, launched 31 July, 1937, reported to have been sunk 3 July, 1951. It is officially stated that she is still under consideration to be raised.

Armoured Gunboat.



RATANAKOSINDRA. 1950 *Royal Thai Navy, Official.*

RATANAKOSINDRA

Builders:	Armstrong
Laid down:	29 Sep., 1924
Launched:	21 Apr., 1925
Completed:	Aug., 1925
Displacement:	886 tons (1,000 tons *full load*)
Dimensions:	160 (*pp.*), 173 (*o.a.*) × 37 × 10¾ feet
Guns:	2—6 inch, 4—3 inch AA., 2—40 mm. AA., 2—20 mm. AA.
Armour:	Side 2½" (amidships), 1½" ends, nickel steel: barbette rings, 2½" nickel steel; C.T., 4½" cast steel armour; Upper deck, 1½"-¾" high tensile steel
Machinery:	Triple expansion. 2 shafts. I.H.P.: 850 = 12 kts.
Boilers:	2 oil-burning water-tube, working pressure 225 lbs.
Oil fuel:	96 tons
Complement:	103

Note.—*Sukhothai*, launched by Vickers-Armstrong, 19 Nov., 1929, and completed in 1930, was of similar design.

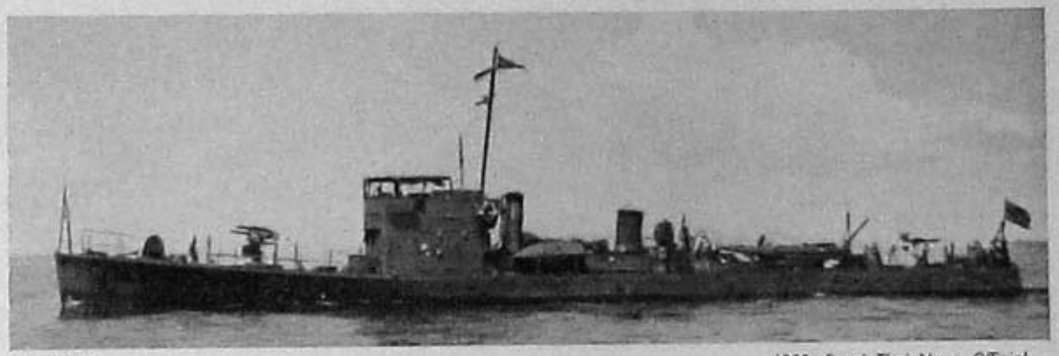
Torpedo Boats.

SURASDRA. 1950, *Royal Thai Navy, Official*

TRAD (No. 11, Oct. 26, 1935)
PUKET (No. 12, Sept. 28, 1935)
PATTANI (No. 13, Oct. 16, 1936)
SURASDRA (No. 21, Nov. 28, 1936)
CHANDABURI (No. 22, Dec. 16, 1936)
RAYONG (No. 23, Jan. 11, 1937)
CHUMPORN (No. 31, Jan. 18, 1937)

Displacement:	318 tons *standard* (470 tons *full load*)
Dimensions:	219 (*pp.*), 223 (*o.a.*) × 21 × 7 (*max.*) feet
Guns:	3—3 inch AA., 2—20 mm. AA., 4—8 mm.
Tubes:	6—18 inch (2 single, 4 paired)
Machinery	Parsons geared turbines. 2 shafts. H.P.: 9,000 = 31 kts.
Boilers:	Yarrow
Oil fuel:	102 tons
Radius:	1,700 miles at 15 kts.
Complement:	70

Notes.—First 2 laid down Feb. 8, 1935, by Cantieri Riuniti dell'Adriatico, Monfalcone, for delivery by end of 1935. Launch dates above. Armament supplied by Vickers-Armstrongs, Ltd. First boat reached 32·54 kts. on trials with 10,000 H.P. All delivered by summer of 1937. *Cholburi* and *Songkhla* were sunk in action with a French squadron on Jan. 17 1941. Reported that only three of these boats remain. It is planned to convert them to anti-submarine warfare vessels.



TAKBAI. 1950, *Royal Thai Navy, Official.*

KANTANG (No. 7) **KLONGYAI** (No. 5) **TAKBAI** (No.)

Displacement:	110 tons *standard* (135 tons *full load*)
Dimensions:	131½ × 15½ × 4 feet
Guns:	1—3 inch, 1—20 mm.
Tubes:	2—18 inch
Machinery:	Geared turbines. 2 shafts. S.H.P.: 1,000 = 19 kts.
Boilers:	2 water-tube
Oil fuel:	18 tons
Complement:	31

Notes.—Built by Isaikawazima Co., launched March 26, 1937. Completed June 21, 1937.

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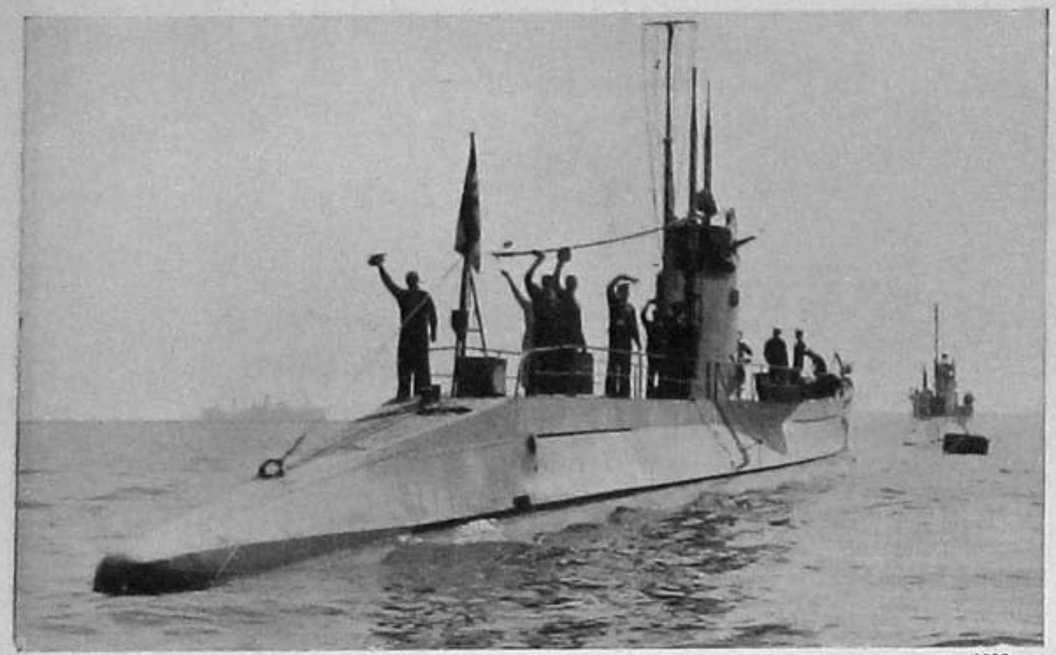
Submarines.

4 "Majchanu" Class.



PLAI CHUMPOL. 1938.

MAJCHANU **SINSAMUT**
PLAI CHUMPOL **WIRUN**

Displacement	370 tons *standard*
Dimensions :	167½ × 13½ × 12 feet
Guns :	1—3 inch
Tubes :	4—18 inch
Machinery :	Diesels. B.H.P. : 1,000 = 14·5 kts. *surface* ; electric motors, H.P. : 540 = 8 kts. *submerged*
Oil fuel :	27 tons
Radius :	3,000 miles at 10 kts. (*surface*)
Complement :	24

Notes.—Reported to be in poor condition. It is officially stated that all the above submarines have been decommissioned.

Name	*Builders*	*Laid down*	*Launched*
Majchanu	Mitubisi	6 Apr., 1936	24 Dec., 1936
Plai Chumpol		1 Oct., 1936	14 May, 1936
Sinsamut		1 Oct., 1936	14 May, 1936
Wirun		6 Apr., 1936	24 Dec., 1936

Ocean Minesweeper.

1 "Algerine" Class.

PHOSAMTON. 1953. *A. & J. Pavia*

PHOSAMTON (ex-H.M.S. *Minstrel*)

Builders :	Redfern Construction Co.
Launched :	5 Oct., 1944
Displacement :	1,040 tons
Dimensions :	225 (*pp.*), 235 (*o.a.*) × 35½ × 10½ feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 2,000 = 16 kts.
Boilers :	2, of 3-drum type
Complement :	103

Notes.—Former British "Algerine" class minesweeper of oceangoing type capable of fleet sweeping and escort duties.

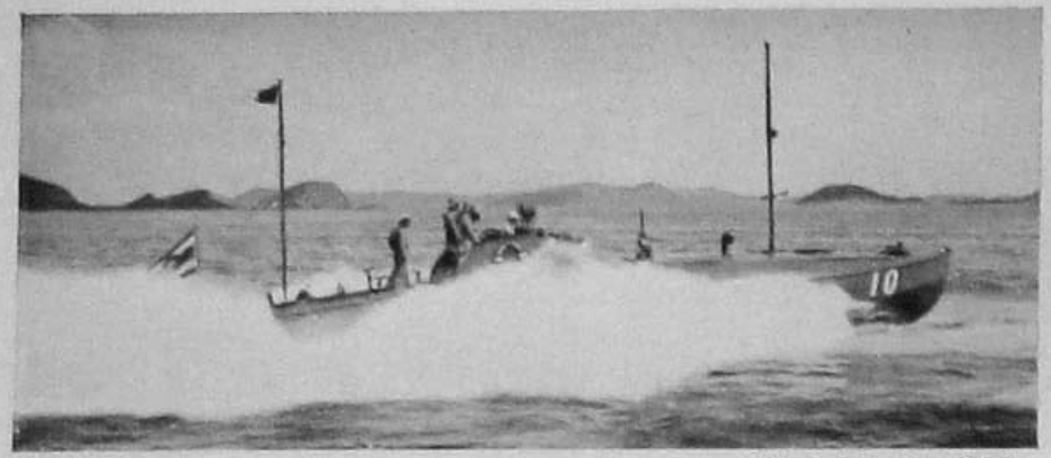
Training Ship (ex-Fleet Minesweeper).

CHOW PRAYA (ex-H.M.S. *Havant*)

Builders :	Elcringhams, S. Shields
Launched :	Nov., 1918
Displacement :	669 tons (840 tons *full load*)
Dimensions :	220 × 28½ × 7½ feet
Guns :	2—57/40 mm. AA., 1—40 mm. AA.
Machinery :	Vertical triple expansion. 2 shafts. I.H.P. : 2,200 = 16 kts.
Boilers :	Yarrow, converted to burn oil
Oil fuel :	160 tons
Complement :	65

Notes.—Former British fleet minesweeper. Purchased 1923 and reconstructed by Messrs. Thornycroft. Guns interchangeable for training. For appearance see silhouette on earlier page.

Motor Torpedo Boats.



CMB No 10. 1950, *Royal Thai Navy, Official.*

No. 8	No. 9	No. 10	No. 11	No. 12

Displacement:	16 tons
Machinery :	B.H.P. : 750 = 40 kts.
Armament :	2 M.G., 2—18 inch torpedoes, 2 D.C.

Notes.—Thornycroft type. Launched 1935 to 1937. Built and equipped at Royal Siamese Naval Dockyard, Bangkok, and engined by Messrs. Thornycroft. Rated as Coastal Motor Boats.

Motor Minesweepers.

LADYA. 1950, *Royal Thai Navy, Official.*

BANGKEO (*ex-YMS 334*) **LADYA** (*ex-YMS 138*) **TA DINDENG** (*ex-YMS 21*)

Displacement :	300 tons (325 tons *full load*)
Dimensions :	136 × 24½ × 6 feet
Guns :	1—3 inch, 2—20 mm. AA.
Machinery :	G.M. Diesel. 2 shafts. B.H.P. : 1,000 = 15 kts.
Complement:	51

Notes.—Former United States motor minesweepers of YMS type. Hull is of wooden construction.

Coastal Minelayers.

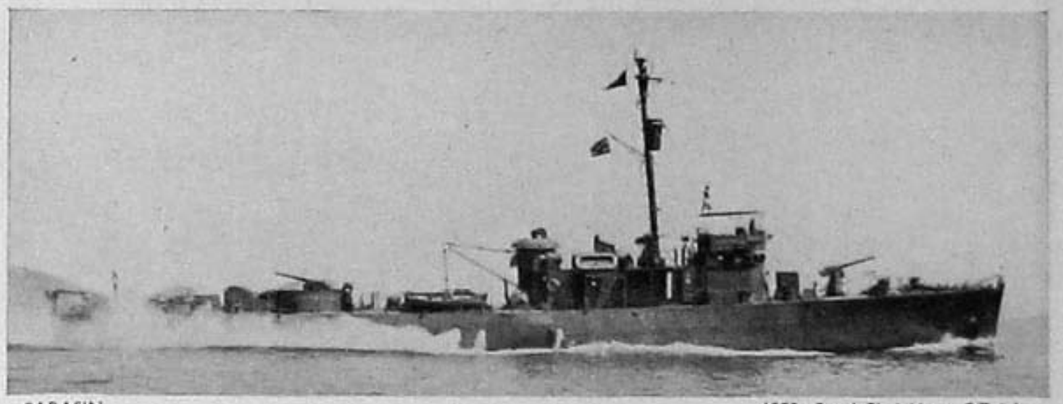
BANGRACHAN. 1950, *Royal Thai Navy Official.*

BANGRACHAN (No. 1) **NHONG SARHAI** (No. 2)

Displacement :	368 tons *standard* (408 tons *full load*)
Dimensions :	160½ × 26 × 7½ feet
Guns :	2—3 inch AA., 2—20 mm. AA.
Machinery :	Burmeister & Wain diesel engines. Oil fuel 18 tons. 2 shafts. B.H.P. : 540 = 12 kts.
Complement	55

Notes.—Built by Cant. Riuniti dell' Adriatico, Monfalcone. Launched 1936 and July 22 1936 respectively. Can carry 142 mines.

Patrol Vessels.



SARASIN. 1950 *Royal Thai Navy, Official.*

KHAMRONSIN (*ex-PC 609*) **PHALI** (*ex-PC 1185*) **SUKRIP** (*ex-PC 1218*)
LIULOM (*ex-PC 1253*) **SARASIN** (*ex-PC 495*) **THAYANGHON** (*ex-PC 575*)
LONGLOM (*ex-PC 570*) **TONGPLIU** (*ex-PC 616*)

Displacement:	280 tons (400 tons *full load*)
Dimensions :	174 (o.a.) × 23½ × 6 feet
Guns :	1—3 inch AA., 1—40 mm. AA., 5—20 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 3,600 = 19 kts.
Complement :	62 to 71

Notes.—Former United States patrol vessels of PC type. Used to prevent smuggling, and as anti-submarine boats.

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Motor Patrol Boats.

	THIOW UTHOK	TRAWEN WARI
Displacement :	50 tons	
Dimensions :	72 × 13 × 3½ feet	
Guns :	1—20 mm.	
Machinery :	Diesel. Oil fuel 5 tons. 2 shafts. B.H.P.: 150 = 9 kts.	

Notes.—Launched 1936. Built in Bangkok, to Italian design. Used for fishery protection.

	No. 11	No. 12
Displacement :	44·5 tons	
Dimensions :	83½ × 16 × 4½ feet	
Guns :	1—20 mm. AA.	
Machinery :	2 Viking petrol engines. B.H.P. : 1,300 = 20·5 kts.	

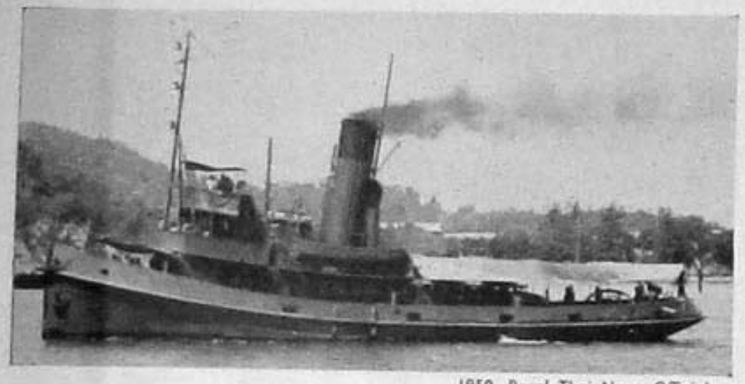
Notes.—Former U.S. Coast Guard cutters of YP class. Wooden hulled construction.

MPB No. 5. 1950, *Royal Thai Navy, Official.*

	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
Displacement :	16 tons					
Guns :	1—20 mm. AA.					
Machinery :	Gray Marine engines. Speed : 12·5 kts.					

Note.—Built and equipped at Royal Thai Naval Dockyard, Bangkok, and engined by Gray.

Fleet Tug.



1950, *Royal Thai Navy, Official.*

SAMAESAN (*ex-Empire Vincent*).

Builders :	Cochrane & Sons, Ltd., Selby, Yorks, England.
Displacement :	503 tons (*full load*)
Dimensions :	105 × 26½ × 13 feet
Machinery :	Triple expansion. I.H.P. : 850 = 10·5 kts.
Complement :	27

Despatch Vessel.

SAMED (*ex-Pi-Sua-Nam*)

Launched :	1906
Displacement :	129 tons
Dimensions :	100 × 20 × 8½ (*mean*) feet
Machinery :	Triple expansion. I.H.P. : 210 = 9 kts.
Complement :	26

Note.—Acquired in 1918.

Transports.

SURIYA (*ex-Thalang*)

Displacement	920 tons
Dimensions :	175 × 34½ × 16½
Speed :	10 kts. (approx.)
Complement :	76

Note.—Used for various purposes including occasional surveying duties.

1953, *Royal Thai Navy, Official.*

	PA—NGAN	SICHANG
Displacement :	815 tons	
Dimensions :	160 × 28 × 16 feet	
Machinery :	Diesel. 2 shafts. B.H.P. : 550 = 16 kts.	
Complement:	30	

Notes.—Built by Harima Co., Japan. *Sichang* launched 10 Nov. 1937. Completed in Jan. 1938. Sichang is with U.N. fleet.

KLED KEO

Launched :	1933
Displacement :	180 tons
Dimensions :	115 × 16 × 6 feet
Machinery :	Diesel. 2 shafts. B.H.P. : 300 = 8 kts.
Complement :	23

CHANG (*ex-Vides Kichkar, ex-Buk, ex-Lycidas*)

Builders :	Ritson & Co., Maryport
Launched :	1902
Displacement :	850 tons
Dimensions :	176 × 27½ × 10 feet
Machinery :	H.P. : 780 = 9 to 10 kts.

CHUANG (*ex-Pra-Yam*)

Displacement:	190 tons
Dimensions :	110 × 18 × 8 (*mean*) feet
Machinery :	H.P. : 225 = 10 kts.
Complement :	30

KRAM (*ex-Chen Thale*)

Builders :	Hongkong and Whampoa Dock Co.
Launched :	1902
Measurement :	440 tons gross
Dimensions :	160 × 27 × — feet
Machinery :	I.H.P. : 330 = 8 kts.

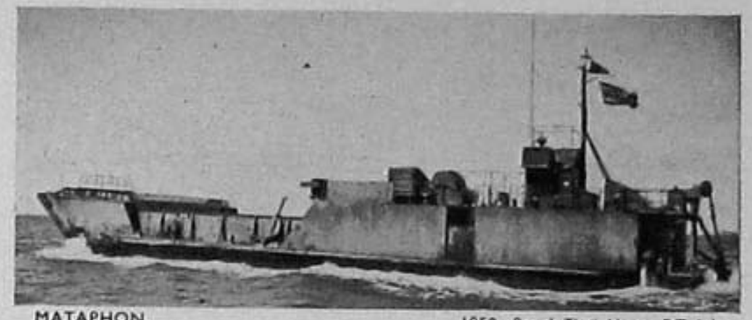
Note.—Used for various purposes, including occasional surveying duties.

Transports (ex-Landing Craft).

	KUT (*ex-LSM*)	PHAI (*ex-LSM*)
Displacement :	912 tons	
Dimensions :	203½ × 23 × 8 feet	
Machinery :	Diesel. 2 shafts. B.H.P. : 1,800 = 10 kts.	
Complement :	55	

PRAP 1950, *Royal Thai Navy, Official.*

	PRAP (*ex-LCI*)	SATAKUT (*ex-LCI*)
Displacement :	387 tons (*full load*)	
Dimensions :	157 × 23 × 6 feet	
Guns :	2—20 mm. AA.	
Machinery :	Diesel. 2 shafts. B.H.P. : 1,320 = 14 kts.	
Complement :	54	



MATAPHON. 1950, *Royal Thai Navy, Official.*

ADANG KOLAM	MATAPHON PETRA	RAVI TALIBONG	TONGKEO TONGLANG
Displacement :	134 tons (279 tons *full load*)		
Dimensions :	112 × 32 × 4 feet		
Machinery :	Diesel. 3 shafts. B.H.P. : 675 = 10 kts.		
Complement :	37		

Note.—Former tank landing craft. *Tonkeo* and *Tonglang*, ex-British LCT, newly commissioned

Oilers.

SAMUI (*ex-YOG* type)

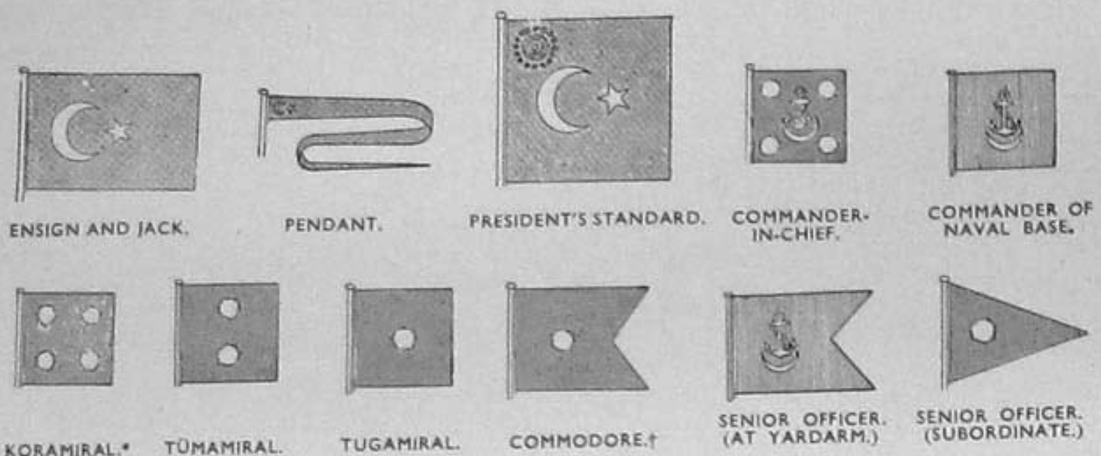
Displacement :	422 tons
Dimensions :	174½ × 32 × 15 feet
Machinery :	Diesel. 2 shafts. B.H.P. : 600 = 8 kts.
Complement :	49

PRONG

Launched :	1938
Displacement :	150 tons
Dimensions :	95 × 18 × 7½ feet
Machinery :	Diesel. B.H.P. : 150 = 10 kts.
Complement :	14

TURKISH NAVY

Flags.



* Koramiral has 3 balls. † Commodore 1st class has 3 balls, if Albay 2, and if Yarbay 1.

Administration.

Minister of National Defence : Bay Hülüsi Koymen
Commander, Turkish Naval Forces : Koramiral Sadik Altincan
Chief of Staff to Commander, Turkish Naval Forces : Tümamiral Kemaletti Bozkurt
Commander-in-Chief of the Fleet : Tümamiral Ridvan Koral
Commander, Active Fleet : Tügamiral Zeki Ozak
Rear-Admiral, Submarines : Tügamiral Fahri Koruturk

Naval Attaché, London : Captain Tevfik Sargut.

Ships.

All ships of the Turkish Navy are officially referred to with the prefix T.C.G.

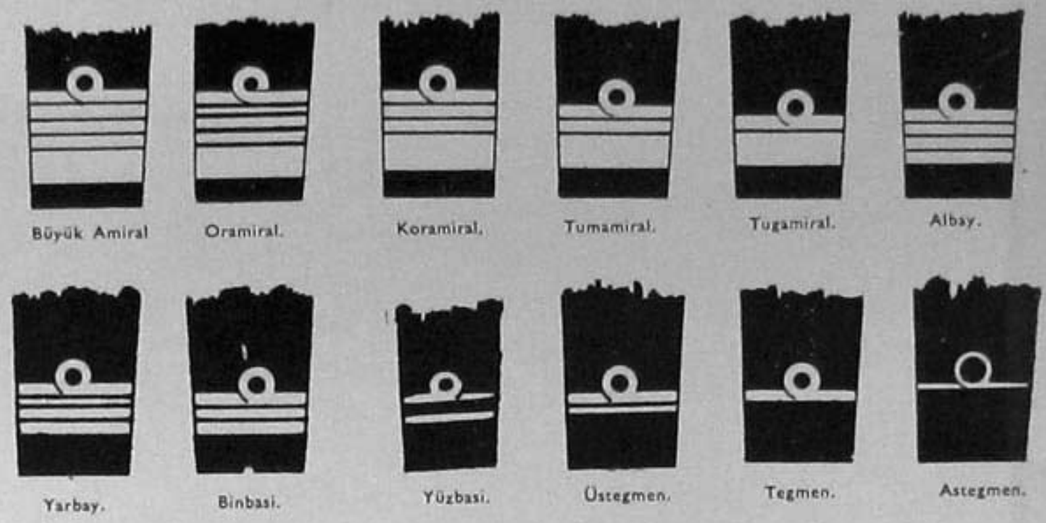
Personnel.

About 1,250 officers and 18,000 ratings.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 243 vessels of 443,663 tons *gross*.

Uniforms.



Büyük Amiral	=	*Admiral of the Fleet* (Non-existent in peacetime.)	Albay	=	*Captain*
Oramiral	=	*Admiral (Senior)*	Yarbay	=	*Captain (Junior)*
Koramiral	=	*Admiral*	Binbasi	=	*Commander*
Tumamiral	=	*Vice-Admiral*	Yüzbasi	=	*Lieutenant*
Tugamiral	=	*Rear-Admiral*	Ustegmen	=	*Sub-Lieutenant*
			Tegmen	=	*Acting Sub-Lieutenant*
			Astegmen	=	*Midshipman*

Insignia of Branch worn by Turkish Naval Officers.

1. Turkish naval officers, other than Executive branch, have different colours between the stripes to indicate the branch of the service to which they belong. These are :

Gold Stripes	*Engineer*	Blue.
	Dockyard Engineer ..	Light blue.
	Hydrographic ..	Green.
	Supply	Mauve.
	Medical	Maroon-purple.
	Dental	Orange.
	Chemical	Dark green.
Silver Stripes	*Instructor*	Brown.
	Legal	Yellow.
	Band	Brown velvet.
	Clerical	White.

2. Qualified Staff Officers (Executive Branch) wear no colour but have a five-pointed star above the executive curl on both sleeves and shoulder straps.

3. All officers in the Submarine Service wear on the left side of their waist a badge consisting of a submarine in white metal with yellow metal oak leaves superimposed upon it.

4. On white uniform Turkish naval officers, except Flag Officers, wear shoulder straps on which they have the stripes of their ranks with distinguishing colours between them.

5. Flag Officers wear shoulder straps with the laurels, crossed sword and baton, and stars appropriate to their rank.

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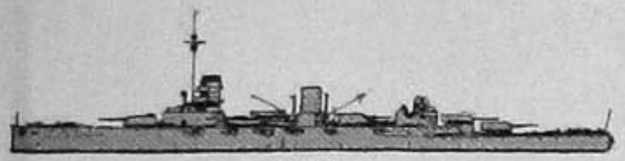
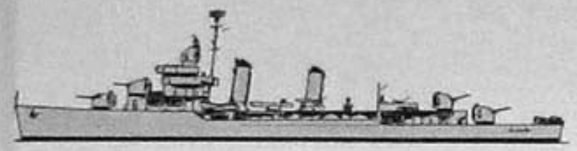


YAVUZ.

TINAZTEPE, ZAFER.

ERKIN.

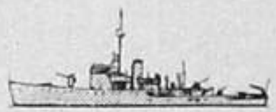


GELIBOLU, GIRESUN.

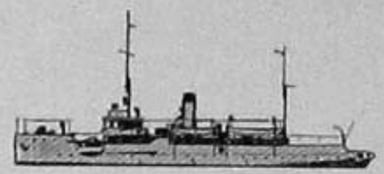
ÇANDARLI *Class.*

NUSRET.*

GAYRET.



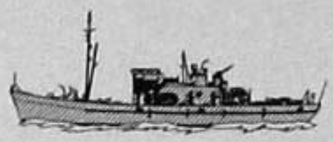
ALANYA *Class.**



KEMAL REIS *Class.*

DEMIRHISAR.*
(SULTAN HISAR 2 bands on after funnel)

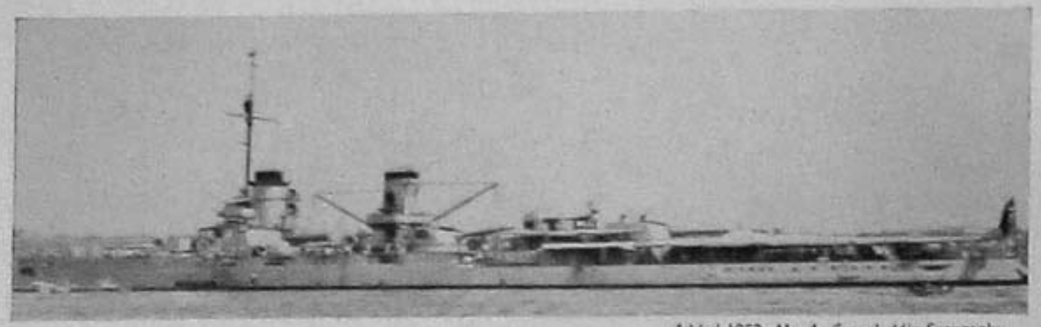
SIVRIHISAR, TORGUD REIS.



BAFRA *Class.*

TURKEY—Battle Cruiser and Destroyers

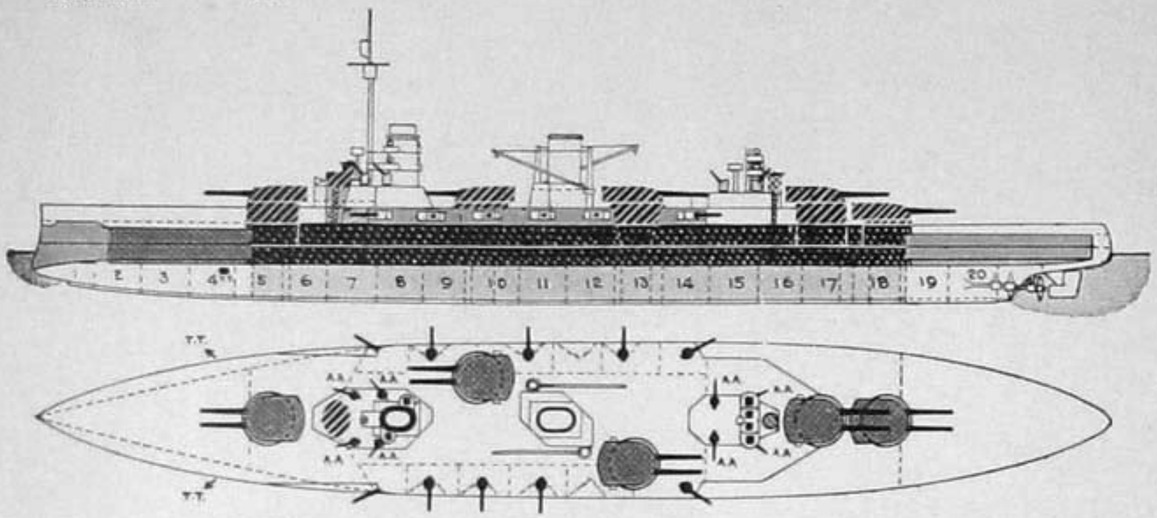
Battle Cruiser.



Added 1952, Mr. A. Cemaleddin Saracoglu.

YAVUZ (*ex-German Goeben*)

Builders :	Blohm & Voss, Hamburg
Laid down :	Aug., 1909
Launched :	28 Mar., 1911
Completed :	Jul., 1912
Displacement :	22,734 tons *standard*
Dimensions :	Length : 610½ feet (*w.l.*). Beam : 96½ feet. Draught : 27 feet (*max.*)
Guns :	10—11 inch, 50 cal., 10—5·9 inch, 45 cal., 8—3·5 inch AA. (88 mm.), 10—40 mm. AA., 4—20 mm. AA., 4 M.G.
Tubes :	2—19·7 inch (*submerged*)
Armour (Krupp) :	10½" belt (amidships) tapers to 6" at top and 5" below, 3½" belt (bow and stern), 9"-8" barbettes, 8" gunhouses, 5" battery, 10" fore C.T., 3" roof, 8"-3" double com. tube, 8" after C.T., 6"-3" com. tube, 3"-1" decks.
Anti-torp. protection :	2"-1" deep H.T. steel B.H., between extreme barbettes : minute internal subdivision
Machinery :	Parsons turbines, direct drive, 4 shafts. S.H.P. : 52,000 = 25 kts. (now under 21 kts.)
Boilers :	24 Schulz-Thornycroft (German "Marine" type)
Fuel :	About 1,000 tons coal *normal*, 3,050 tons *max.* + 200 tons oil
Complement	1,013



General Notes.—Begun under 1909 German Navy Programme. Transferred to the Turkish Navy in 1914, and during the first World War was twice mined, striking 5 mines in all. A contract was signed in Dec., 1926 with the Chantiers de St. Nazaire (Penhoët), for the repair and refit of this battle-cruiser at Ismid : the work was considerably delayed owing to a floating dock proving unequal to her weight, and completion was not reached till 1930. She was again refitted in 1938. Mainmast was removed in 1941 to provide space for AA. fire control.

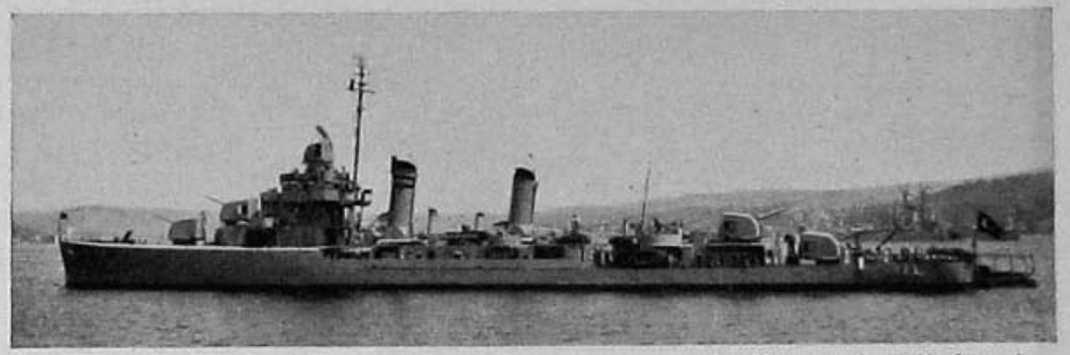
Gunnery Notes.—The 11-inch guns have been modified to meet present-day requirements.

Engineering Notes.—Endurance is (*a*) 5,350 miles at 10 kts., (*b*) 2,370 miles at a continuous *max.* sea-going speed of 23 kts. She made 26·8 kts. on trials for 6 hours ,and 27·1 kts. for 4 hours, on March 17, 1930.

Destroyers.

4 " Gelibolu " Class.

1952, Mr. A. Cemaleddin Saracoglu.



GEMLIK.

Added 1951, Mr. A. Cemaleddin Saracoglu.

GAZIANTEP (*ex-U.S.S. Lansdowne*)
GELIBOLU (*ex-U.S.S. Buchanan*)
GEMLIK (*ex-U.S.S. Lardner*)
GIRESUN (*ex-U.S.S. McCalla*)

Displacement :	1,630 tons (*standard*), 1,700 tons (*actual*), 2,500 tons (*full load*)
Dimensions :	341 (*w.l.*), 348½ (*o.a.*) × 36 × 10 feet
Guns :	4—5 inch, 38 cal., 12—40 mm. Bofors, 6—20 mm. Oerlikon
Tubes :	5—21 inch
Machinery :	General Electric geared turbines. 2 shafts. S.H.P. : 50,000 = 36 kts
Boilers :	4 Babcock & Wilcox
Oil fuel :	600 tons
Complement :	250

Notes.—*Gelibolu* and *Giresun* transferred from U.S. Navy, April 29, 1949, *Gaziantep* and *Gemlik* later same year.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Gaziantep	Federal S.B. & D.D. Co.	Jul., 1941	20 Feb., 1942	29 Apr., 1942
Gelibolu		11 Feb., 1941	22 Nov., 1941	21 Mar., 1942
Gemlik		Jul., 1941	20 Mar., 1942	13 May, 1942
Giresun		Jul., 1942	20 Mar., 1942	27 May, 1942

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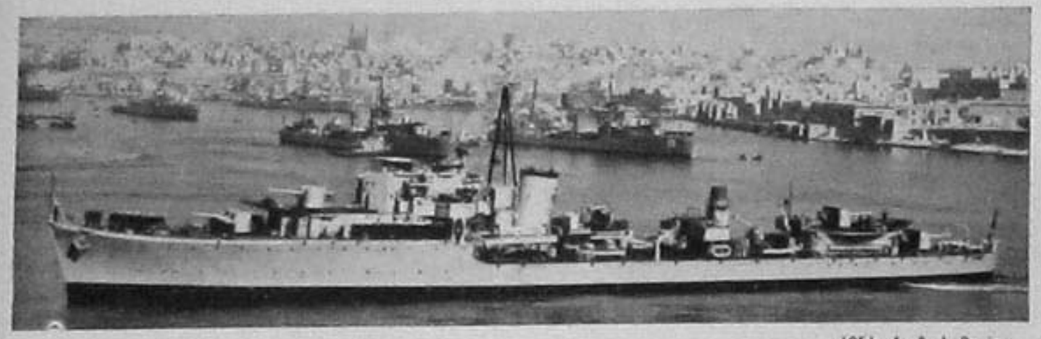
Destroyers—*continued.*

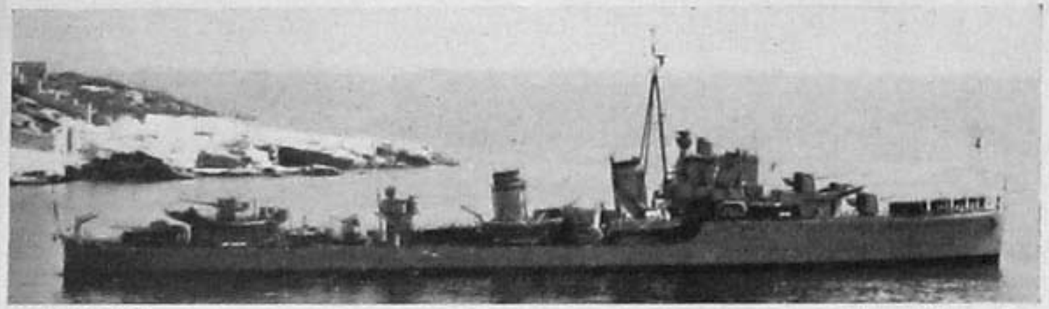


1951, *A. & J. Pavia.*

GAYRET (*ex-H.M.S. Oribi, ex-Observer*)

Builders :	Fairfield S.B. & Eng. Co., Ltd.
Laid down :	15 Jan., 1940
Launched :	14 Jan., 1941
Completed :	5 Jul., 1941
Displacement :	1,540 tons (2,290 tons *full load*)
Dimensions :	338½ (*pp.*), 345 (*o.a.*) × 35 × 9 feet
Guns :	4—4·7 inch, 1—4 inch, 4—2 pdr. pompoms, 4—20 mm. AA.
Tubes :	8—21 inch. D.C.T. on "X" deck.
Machinery :	Parsons geared turbines, 2 shafts, S.H.P. : 40,000 = 34 kts.
Boilers :	2, of 3-drum type

3 "Demirhisar" Class.



SULTANHISAR. 1951, *A. & J. Pavia.*

DEMIRHISAR	MUAVENT (*ex-H.M.S. Inconstant, ex-Muavenet*)	SULTANHISAR
Displacement :	1,360 tons (2,100 tons *full load*)	
Dimensions :	312 (*pp.*), 323 (*o.a.*) × 33 × 8½ (*mean*) feet	
Guns :	4—4·7 inch, 6—40 mm., 2—20 mm.	
Tubes :	8—21 inch (*Muavenet*, only 4)	
Machinery:	Parsons geared turbines, 2 shafts. S.H.P. : 34,000 = 35·5 kts	
Boilers :	3, of 3-drum type, 300 lb. working pressure	
Oil fuel :	450 tons	
Complement :	150	

Notes.—Only *Muavent* has 271 Radar. *Ithuriel* (*ex-Gayret*) of this class was a war loss.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Demirhisar	Wm. Denny & Bros. Ltd., Dumbarton.	1939	1941	1942
Muavenet	Vickers-Armstrongs (Barrow).	24 May, 1939	15 Dec., 1941	24 Jan., 1942
Sultanhisar	Wm. Denny & Bros. Ltd., Dumbarton.	1939	1941	1942

Destroyers—*continued.*

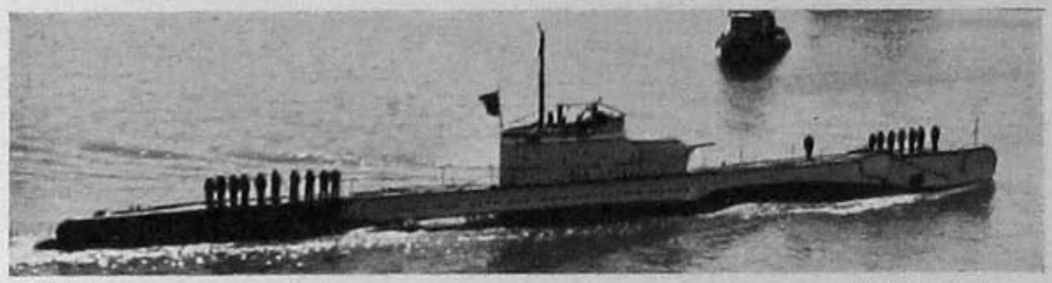
ZAFER. 1951, *Mr. A. Cemaleddin Saracoglu.*

TINAZTEPE	ZAFER	
Displacement :	1,206 tons *standard* (1,610 tons *full load*)	
Dimensions :	307 (*pp.*), 315 (*o.a.*) × 30½ × 10½ feet	
Guns :	4—4·7 inch, 50 cal., 2—40 mm. AA., 2—20 mm. AA.	
Tubes :	6—21 inch in triple mountings	
Machinery :	Parsons geared turbines, 2 shafts. S.H.P. : 35,000 = 36 kts. (Sea speed 30 kts.)	
Boilers :	3 Thornycroft with superheaters	
Oil fuel :	350 tons	
Complement :	149	

Notes.—Of Italian type. Built at Riva Trigoso. *Zafer* is at present employed as the training ship of Heybeli Naval College.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Tinaztepe	C.N. del Tirreno	May, 1930	20 Jul., 1931	1932
Zafer	C.N. del Tirreno	May, 1930	20 Sep., 1931	1932

Submarines.



ORUC REIS. 1951, *A. & J. Pavia.*

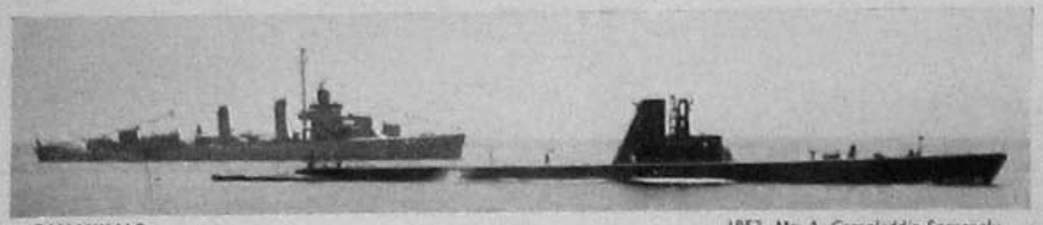
BURAK REIS	MURAT REIS	ORUÇ REIS
Displacement :	638 tons *surface*, 856 tons *submerged*	
Dimensions :	193 (*pp.*), 201½ (*o.a.*) × 22½ × 10½ (*mean*), 11½ (*max.*) feet	
Guns :	1—4 inch, 3 M.G.	
Tubes :	5—21 inch (4 bow, 1 stern)	
Machinery:	Diesels. B.H.P. : 1,550 = 13·75 kts. *surface*; H.P. : 1,300 = 9 kts. *submerged*. (*Burak Reis*, 15/10 kts.)	
Oil fuel :	40 tons	

Notes.—Patrol type. Ordered March, 1939. These submarines served in British Navy as *P* 614, *P* 612, *P* 611 respectively, during Second World War. *Burak Reis* has no gun shield. *P* 615 (*ex-Akluc Ali Reis*) of this class was a Second World War loss.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Burak Reis	Vickers-Armstrongs, Ltd. (Barrow)	24 May, 1939	19 Oct., 1940	10 Mar., 1942
Murat Reis		24 May, 1939	20 Jul., 1940	7 Jan., 1942
Oruç Reis		24 May, 1939	19 Jul., 1940	1 Dec., 1941

Submarines—*continued.*

5 Ocean-going Type.



CANAKKALE. 1953, Mr. A. Cemaleddin Saracoglu.

BIRINCI INONU. 1953, A. & J. Pavia.

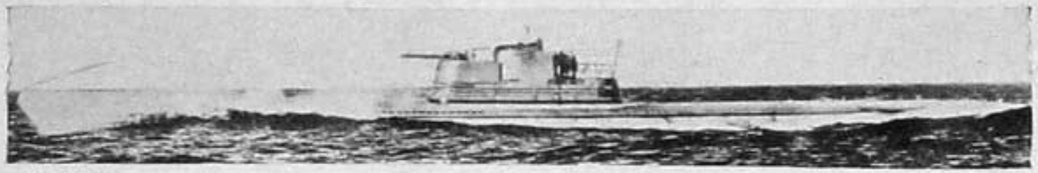
BIRINCI INÖNÜ (*ex-U.S.S. Brill*) **IKINCI INÖNÜ** (*ex-U.S.S. Chub*)
CANAKKALE (*ex-U.S.S. Blower*) **GUR** (*ex-U.S.S. Boarfish*) **SAKARYA** (*ex-U.S.S. Bluebock*)

Displacement :	1,526 tons (*standard*), 1,829 tons (*surface*), 2,424 tons (*submerged*)
Dimensions :	311¾ × 27¼ × 13¾ feet
Guns :	2—5 inch, 25 cal., 2—40 mm., 4 M.G.
Tubes :	10—21 inch (6 bow, 4 stern) 24 torpedoes carried.
Machinery :	2-stroke Diesels. B.H.P. : 6,500 = 19·5 kts. (*surface*), and electric motors, 9 kts. (*submerged*)

Notes.—All built by Electric Boat Company. Of all welded construction. High standard of accommodation including separate messing and sleeping compartments. *Birinci Inönü and Ikinci Inönü* refer to the first victories gained at Inönü in Asia Minor. *Canakkale* and *Dumlupinar*, both officially transferred in 1950, were semi-streamlined before delivery. *Dumlupinar* was lost in Dardanelles 4 April 1953.

Name	*Launched*	*Completed*	*Name*	*Launched*	*Completed*
Birinci Inönü	25 Jun., 1944	26 Oct., 1944	*Gur*	21 May, 1944	23 Sep., 1944
Canakkale	23 Apr., 1944	10 Aug., 1944	*Ikinci Inönü*	18 Jan., 1944	21 Oct., 1944
			Sakarya	7 May, 1944	28 Aug., 1944

2 "Ay" Class.



SALDIRAY. 1939.

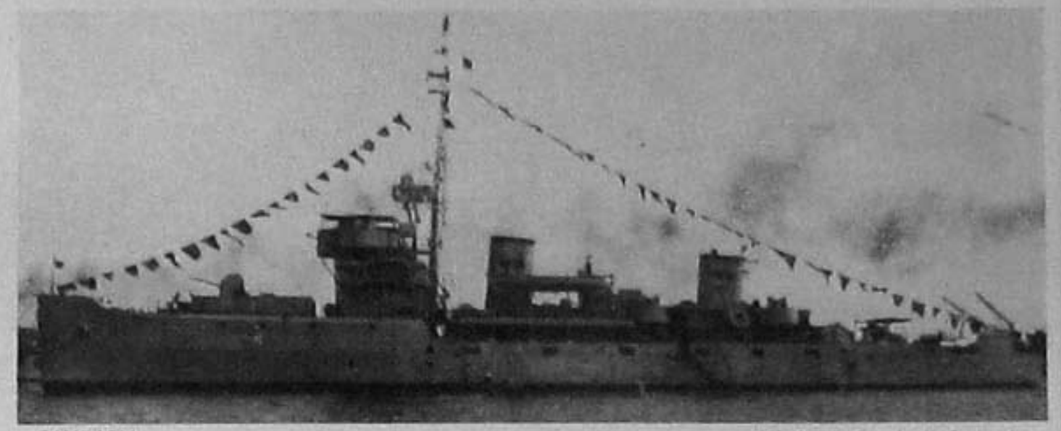
SALDIRAY **YILDIRAY**

Displacement:	934 tons *surface*, 1,210 tons *submerged*
Dimensions :	262½ × 21 × 14 feet
Guns :	1—4 inch, 1—20 mm. AA.
Tubes :	6 (4 bow and 2 stern)
Machinery :	2 sets Burmeister & Wain Diesels. B.H.P.: 3,500 = 20 kts. *surface*; 9 kts. *submerged*
Diving limit :	55 fathoms
Complement :	40

Notes.—Both Germania type. *Atilay* of this class was lost during submerged trials off Canakkale, July 14, 1942.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Saldiray	Germania, Kiel	Dec., 1936	23 Jul., 1938	May, 1939
Yildiray	Istanbul	Aug., 1937	26 Aug., 1939	1946

Ocean Minesweepers.

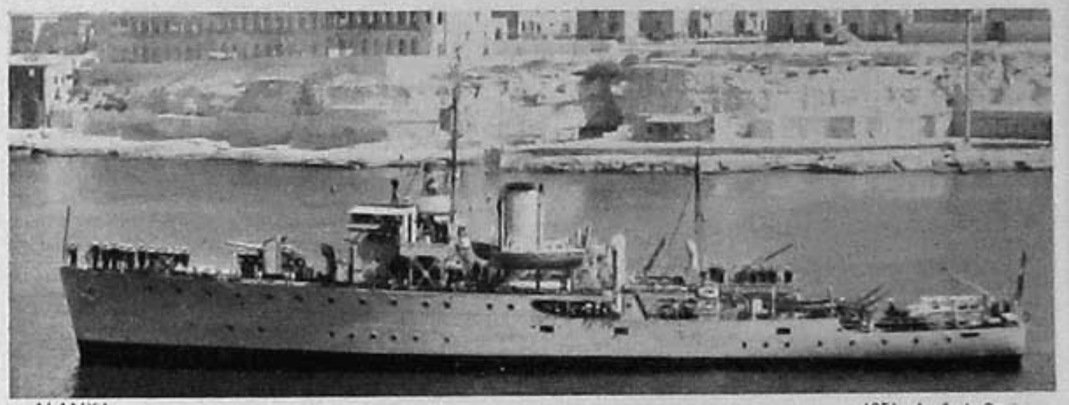


ÇANDARLI. 1952, Mr. A. Cemaleddin Saracoglu.

ÇANDARLI (*ex-Frolic*, July 22, 1943) **EDINCIK** (*ex-Grecian*, 1943)
ÇARDAK (*ex-Tourmaline*, *ex-Usage*, Oct. 4, 1942) **EDREMIT** (*ex-Chance*, Nov. 28, 1942)
ÇARSANBA (*ex-Tattoo*, Jan. 27, 1943) **ERDEMLI** (*ex-Catharine*, Sep. 7, 1943)
ÇESME (*ex-Elfreda*, Jan. 25, 1943) **EREGLI** (*ex-Pique*, *ex-Celerity*, Oct. 26, 1942)

Displacement :	1,110 tons (1,183 tons *deep load*)
Dimensions :	215 (*w.l.*), 221 (*o.a.*) × 32 × 10¾ (*max.*) feet
Guns :	1—3 inch, 6—40 mm.
Machinery :	Diesel, with electric drive. 2 shafts B.H.P. : 3,500 = 18 kts.
Complement :	105

Notes.—All U.S. built. Launch dates above. Named after Turkish ports. Vessels of "E" type have tripod mainmasts.



ALANYA. 1951, A. & J. Pavia.

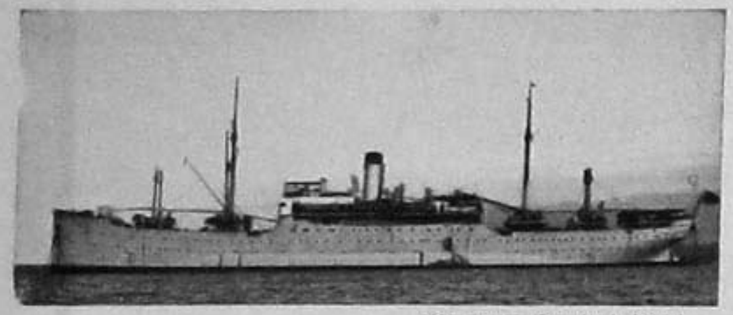
ALANYA (*ex-Broome*) **AMASRA** (*ex-Pirie*) **ANTALYA** (*ex-Geraldton*) **AYANCIK** (*ex-Launceston*) **AYVALIK** (*ex-Gawler*)

Displacement :	790 tons (1,025 tons *full load*)
Dimensions :	162 (*pp.*), 186 (*o.a.*) × 31 × 8½ feet
Guns :	1—4 inch, 1—40 mm., 4—20 mm. AA.
Machinery :	Triple expansion. 2 shafts. I.H.P. : 1,800 = 15·5 kts.
Oil fuel :	170 tons

Notes.—All Australian built, 1940-42, acquired from Royal Navy in 1946. Named after Turkish ports. Taller mainmast in *Ayancik* and *Ayvalik*. A black band in *Ayancik* and *Amasra*, 2 black bands in *Ayvalik* and *Antalya*.

Name	*Builders*	*Launched*	*Name*	*Builders*	*Launched*
Alanya	Evans Deakin, Brisbane	6 Oct., 1941	*Ayancik*	Evans Deakin, Brisbane	30 Jun., 1941
Asmara	Broken Hill, Whyalla	Dec., 1941	*Ayvalik*	Broken Hill, Whyalla	Oct., 1941
Antalya	Poole & Steel, Sydney	16 Aug., 1941			

Submarine Depot Ship.



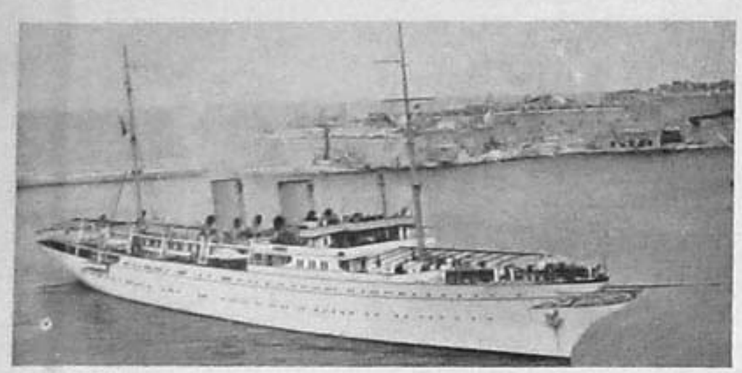
1938, *courtesy Dott. Ing L. Accorsi.*

ERKIN (*ex-German liner Trier*)

Builders :	Weser, Bremen
Launched :	1923
Displacement :	16,800 tons (9,415 tons *gross*)
Dimensions :	458½ × 5½ × 28 feet
Machinery :	Triple expansion. 2 shafts. I.H.P. : 4,200 = 12·5 kts.

Note.—Purchased in July, 1936.

Training Ship.



SAVARONA. 1953, *A. & J. Pavia.*

Builders :	Blohm & Voss, Hamburg
Launched :	28 Feb., 1931.
Displacement :	5,710 tons
Dimensions :	349½ (*w.l.*), 408½ (*o.a.*) × 53 × 20½ (*mean*) feet
Guns :	4—3 inch, 2—40 mm. AA., 2—20 mm. AA.
Machinery	6 geared turbines. 2 shafts. S.H.P. : 10,750 = 21 kts. (about 18 kts. now)
Boilers :	4 watertube, 400 lb. working pressure
Oil fuel :	2,100 tons
Radius :	9,000 miles at 15 kts.
Complement :	132 + 81 midshipmen

Notes.—Formerly probably the most sumptuously fitted yacht afloat. Equipment includes Sperry gyro-stabilisers. Reconstructed and converted into a training ship for midshipmen in 1952, the saloons and dining rooms being adopted as classrooms, workshops and libraries for 120 midshipmen. Was to have been renamed *Gunes Dil.*

Minelayers.

3 Ex-U.S. LSM Type

MADDOGAN (*ex-LSM 481*) **MARMARIS** (*ex-LSM 484*) **MERIC** (*ex-LSM 490*)

Displacement :	743 tons (1,100 tons *full load*)
Dimensions :	196½ (*w.l.*), 203½ (*o.a.*) × 34½ × 8½ feet
Guns :	2—40 mm. AA., 2—20 mm. AA.
Machinery :	Diesels. 2 shafts. B.H.P. : 2,880 = 12 kts.
Complement :	70

Notes.—Ex-U.S. LSMs., Landing Ships Medium. All three vessels launched 1945, converted into minelayers by U.S. Navy in 1952 and taken over by the Turkish Navy in October 1952 under the Mutual Defense Assistance Program.

1942, *courtesy Messrs. Thornycroft.*

SIVRIHISAR (April 10 1940)
TORGUD REIS (*ex-Yüzbaşi Hakki*, 1940)

Displacement :	350 tons (375 tons *full load*)
Dimensions :	172 × 26 × 5½ feet
Guns :	1—3 inch, 1 pompom
Mines :	80 to 100
Machinery :	2 sets Atlas Polar Diesels. 2 shafts. B.H.P. : 1 200 = 15 kts.

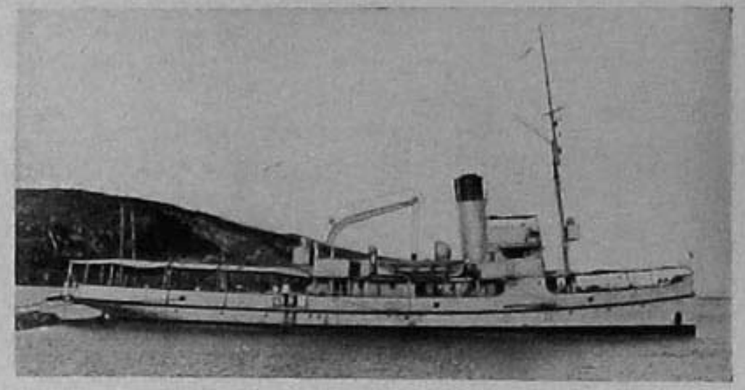
Notes.—Built by John I. Thornycroft & Co. Ltd. Southampton. Launch dates above.

1948 *Official.*

ATAK

Builders :	Gölcük
Launched :	1938
Displacement :	500 tons
Dimensions :	144½ × 24½ × 11½ feet
Mines :	40
Machinery :	Atlas Polar Diesel. H.P. : 1,025 = 13 kts.

Minelayers—*continued.*

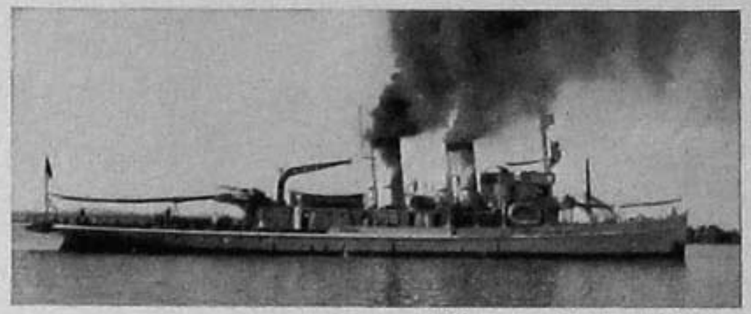


1938, *courtesy Dott. Ing. L. Accorsi.*

NUSRET (*ex-Yardim, ex-Nusret*)

Builders :	Germania, Kiel
Launched :	1912
Displacement :	365 tons
Dimensions :	132 × 22 × 8½ feet
Guns :	2—57 mm.
Mines :	25
Machinery :	Triple expansion. I.H.P. : 1,200 = 15 kts.

Historical Note.—This vessel laid the minefield in the Dardanelles on which the British battleships *Irresistible* and *Ocean*, and the French battleship *Bouvet*, were lost on March 18, 1915.



1938, *courtesy Dott. Ing. L. Accorsi.*

UYANIK (*ex-Intibah, ex-Warren Hastings*)

Built :	Port Glasgow
Launched :	1886
Displacement :	616 tons
Dimensions :	202 × 30 × 12 feet
Mines :	50
Machinery :	2 shafts. H.P. : 1,670 = 12 kts.
Boilers :	Cylindrical

Notes.—Built of iron. Completely refitted in 1933. Originally a salvage tug.

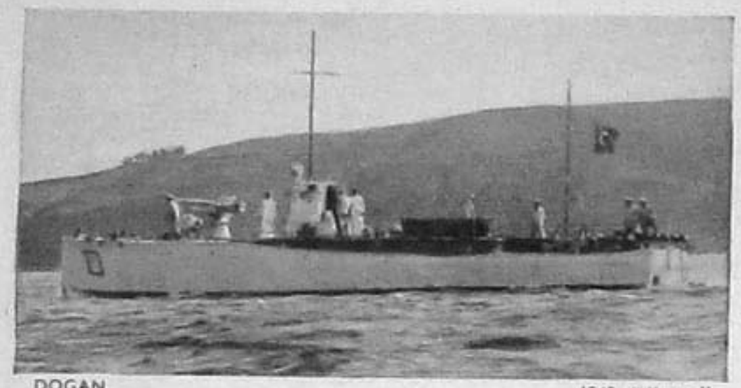
Motor Torpedo Boats.

HB 8. 1950, *Turkish Navy, Official.*

HB 3 (*Yildirim*) **HB 5** (*Bora*) **HB 7** (*Tayfun*)
HB 4 (*Simsek*) **HB 6** (*Kasirga*) **HB 8**

Torpedoes 2—21 inch

Notes.—Built in Turkey. Launched 1942. Torpedoes carried in dropping gear, P. and S. Are of British design.



DOGAN. 1940, "*Yavuz.*"

HB 1 (*Dogan*) **HB 2** (*Marti*)

Displacement:	32 tons
Dimensions:	69 × 13¾ × 4 feet
Guns:	1—3 inch, 1 M.G., 8 D.C.
Torpedoes:	2—18 inch.
Machinery:	Isotta-Fraschini motors. 3 shafts. H.P.: 1,500 = 34 kts.
Complement:	10

Notes.—Built Breda, Venice. Launched 1926. Purchased 1931. These names mean Falcon and Seagull, respectively.

Motor Torpedo Boats—*continued.*

Controlled Target Boats

No. 1 (ex-*CT* 40, ex-*PT* 203) **No. 3** (ex-*CT* 42, ex-*PT* 212)
No. 2 (ex-*CT* 41, ex-*PT* 205) **No. 4** (ex-*CT* 43, ex-*PT* 215)

Notes.—Former United States motor torpedo boats acquired from Great Britain.

Motor Minesweepers.

"K" Class.

KAŞ (only one like this). 1948, *U.S. Navy, Official.*

KÜLLÜK. *U.S. Navy Official.*

KAŞ (ex-*YMS* 79) **KIRTE** (ex-*YMS* 307)
KEMER (ex-*YMS* 228) **KOZLU** (ex-*YMS* 375)
KEREMPE (ex-*YMS* 239) **KÜLLÜK** (ex-*YMS* 348)
KILIMLI (ex-*YMS* 289) **KUŞADASI** (ex-*YMS* 468)

Displacement:	300 tons (325 tons *full load*)
Dimensions:	136 × 24 × 6 feet
Guns:	1—3 inch, 2—20 mm. AA.
Machinery:	2 G.M. Diesels. B.H.P.: 1,000 = 15 kts (*max.*) 11 kts. (*normal*)
Oil fuel:	16 tons
Complement:	20

Notes.—Acquired from U.S. Navy in 1947.

Motor Minesweepers—*continued.*

BAFRA. 1948, *Official.*

BAFRA (ex-*MMS* 63) **BARTIN** (ex-*MMS* 88)
BANDIRMA (ex-*MMS* 65)

Displacement:	255 tons (295 tons *full load*)
Dimensions:	105 (*pp.*), 119 (*o.a.*) × 23 × 9½ feet
Guns:	6 M.G.
Machinery:	Diesel. B.H.P.: 500 = 10 kts.
Complement:	20

Note.—Acquired from Royal Navy in 1946.

CANAK. 1950, *Turkish Navy, Official.*

CANAK (ex-*MMS* 1)

Builders:	Thornycroft
Launched:	1937
Displacement:	32 tons
Dimensions:	75 × 14 × 5 (*max.*) feet
Machinery:	3 Thornycroft Y. 12-cylinder petrol engines. 3 shafts. H.P.: 1,500 = 15 kts. (reduced to 10 kts. when sweeping)
Radius:	18 hours at full speed
Complement:	11

Notes.—Acquired 1939. Wood. Propellers are driven through S.L.M. oil-operated 2:1 reverse-reduction gears of the Modern Wheel Drive type.

Motor Launches.

LSB 5. 1948, *Official.*

LSB 1 **LSB 3** **LSB 5** **LSB 7**
LSB 2 **LSB 4** **LSB 6** **LSB 8**

Displacement :	46 tons
Dimensions :	72 (*o.a.*) × 15½ × 4½ (*mean*) feet
Guns :	1—2 pdr. 1—20 mm. AA.
Machinery :	Gardner Diesel. B.H.P. : 260 = 12 kts.
Complement :	7

Note.—Harbour defence craft. (*ex-HDML*). Acquired from Great Britain in 1944-45.

AB 2. 1948, *Official.*

AB 1 (*ex-ML 386*) **AB 4** (*ex-ML 837*) **AB 7** (*ex-ML 862*)
AB 2 (*ex-ML 584*) **AB 5** (*ex-ML 838*) **AB 8** (*ex-ML 863*)
AB 3 (*ex-ML 836*) **AB 6** (*ex-ML 842*)

Displacement :	65 tons
Dimensions :	112 × 17½ × 4 feet
Guns :	1—3 pdr., 2—20 mm. AA., 4 M.G.
Machinery :	2 Hall-Scott engines. B.H.P. : 1,120 = 21 kts.
Oil fuel :	12 tons
Complement :	18

Motor Launches—*continued.*

TB 9. 1949, *Official.*

TB 2 **TB 4** **TB 6** **TB 8**
TB 3 **TB 5** **TB 7** **TB 9**

Displacement :	70 tons
Dimensions :	71½ × 13½ × 8½ (*max.*) feet
Machinery :	Diesel. B.H.P. : 2,000 = 10 kts.
Complement :	8

Note.—All launched 1942.

Submarine Rescue Ship.

Added 1949, *U.S. Navy, Official.*

KIRTARAN (*ex-Bluebird, ex-Yurok*)

Builders :	Charleston S.B. & D.D. Co.
Launched :	1946
Displacement :	1,294 tons
Dimensions :	205 (*o.a.*) × 38½ × 12 feet
Guns :	1—3 inch, 2—40 mm.AA.
Machinery :	Diesel-electric. B.H.P. : 3,000 = 16 kts.

Notes.—Former salvage tug, adapted as submarine rescue vessel 1947. Transferred from United States Navy, Aug. 15, 1950 under Mutual Defense Assistance Program.

Repair Ships.

ONARAN 1953, *Mr. A. Cemaleddin Seracoglu.*

BASARAN (*ex-U.S.S Patroclus, ARL 19, ex-LST955*).
ONARAN (*ex-U.S.S. Alecto, AGP 14, ex-LST 558*)

Displacement :	1,625 tons (3,960 tons *full load*)
Dimensions :	316 (*w.l.*), 328 (*o.a.*) × 50 × 11 feet
Machinery :	Diesel. 2 shafts. B.H.P. : 1,700 = 11 kts.

Notes.—Launched 1944. Acquired from United States Navy in 1952 and 1947 respectively

Boom Defence Vessels.

AG 4 (*ex-Larch ex-AN 21*)

Launched :	2 July 1941
Displacement :	500 tons
Dimensions :	146 (*w.l.*), 163 (*o.a.*) × 30½ × 10½ feet
Guns :	1—3 inch AA.
Machinery :	Diesel-Electric. B.H.P. : 800 = 12 kts.
Complement:	48

Note.—Acquired from United States Navy in 1947.

AG 1. 1948, *Official.*

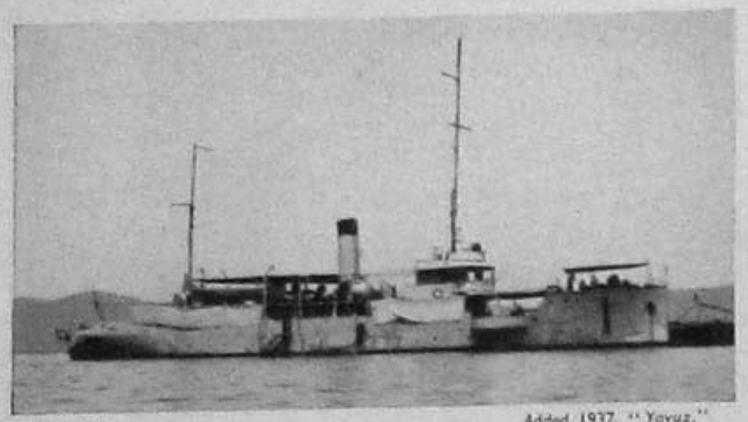
AG 1 (*ex-Barbarian*, Oct. 21, 1937) **AG 3** (*ex-Barfair*, May 21, 1938)
AG 2 (*ex-Barbette* Dec. 15, 1937)

Displacement :	730 tons
Dimensions :	150 (*pp.*), 173½ (*o.a.*) × 32½ × 9½ feet
Guns :	1—3 inch AA.
Machinery :	Triple expansion. I.H.P. : 850 = 11·5 kts.
Boilers :	2 S.E.
Complement :	32

Note.—First two built by Blyth S.B. Co., third by J. Lewis & Sons. Launch dates above.

TURKEY—Surveying Vessels, Tenders, Oilers, Collier

Surveying Vessels.



ISA REIS. *Added 1937, "Yavuz."*

KEMAL REIS (ex-*Durak Reis*, Feb., 1912) **ISA REIS** (Dec., 1911)

Displacement :	413 tons
Dimensions :	154½ × 25½ × 4½ feet
Guns :	3—3 inch, 2—3 pdr., 2 M.G.
Machinery :	Triple expansion. I.H.P. : 850 = 14 kts.

Notes.—Refitted, 1923. The 2 forward guns, shown above in sponsons, are now mounted on forecastle in *Isa Reis*. Both were built at Graville by F. et C. de la Mediterranée. Launch dates above.

Tenders.

1943, *Official.*

ISIN (ex-*Imia Layteri*)

Builders:	James Pollock, Sons & Co., Faversham
Launched :	1941
Displacement :	390 tons *full load*
Dimensions :	110 × 24 × 7 feet
Guns :	1 M.G.
Machinery :	Crossley Diesel B.H.P. : 330
Oil fuel :	32 tons

DALGIC (1939)

Note.—Small motor vessel, attached to Submarine Depot Ship *Erkin* as a tender.

Deep Sea Diving Tender.

AKIN (ex-*Rasit*, ex-*Cow-Whale*)

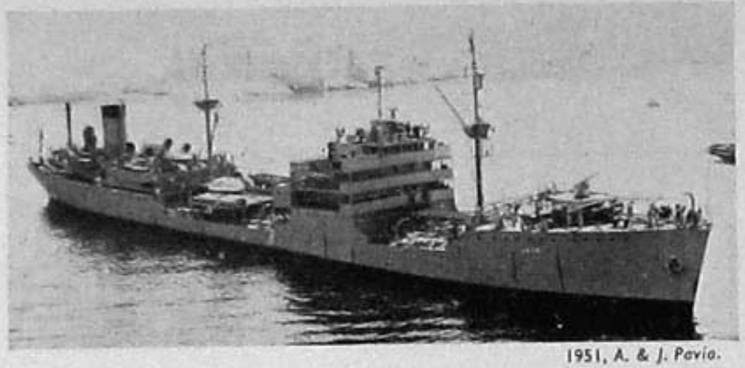
Builders :	Smith's Dock Co.
Launched :	1915
Displacement :	336 tons
Dimensions :	139½ × 25 × 6½ feet
Machinery :	Triple expansion. I.H.P. : 1,000 = 12 kts.
Coal :	60 tons
Complement :	26

Notes.—Ex-Admiralty whaler, purchased 1926. Fitted with deep-sea diving apparatus with which a depth of 115 fathoms has been reached.

Oilers.

TASKIZAK

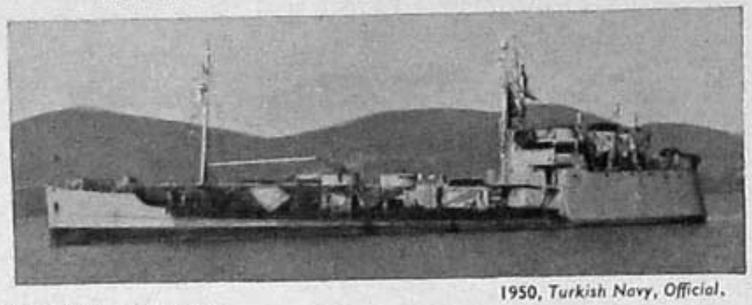
Builders :	Haskoy Naval D.Y. Istanbul
Launched :	22 Aug., 1950.
Displacement :	2,500 tons (3,500 tons *full load*)
Dimensions :	260 × 41 × 19½ feet
Machinery :	Atlas Polar-Diesels. 2 shafts B.H.P. : 1,920 = 14 kts.



1951, *A. & J. Pavia.*

AKAR (ex-*Istanvul*, ex-*Adour*)

Displacement :	4,289 tons
Dimensions :	433 × 52½ × 27 feet
Machinery :	Parsons geared turbines. S.H.P. : 5,200 = 15 kts.



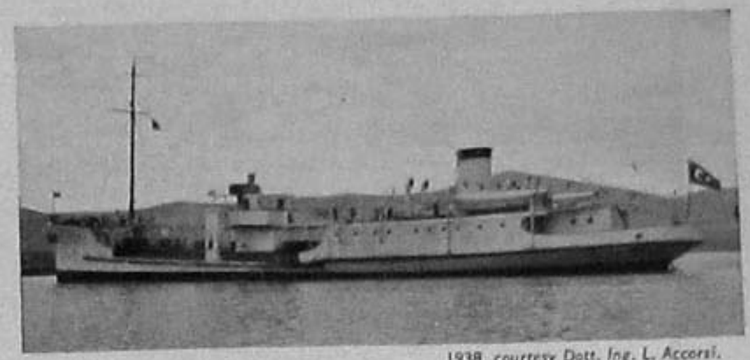
1950, *Turkish Navy, Official.*

AKPINAR (ex-*Chiwaukum*)

Launched :	22 Jul., 1944.
Displacement :	700 tons, 2,700 tons *full load* (1,453 tons deadweight)
Dimensions :	212½ (*w.l.*) 220½ (*o.a.*) × 37 × 12¾ feet
Machinery :	Diesel. B.H.P. : 800 = 10 kts.

Note.—Formerly *AOG 26.*

Oilers—*continued.*



1938, *courtesy Dott. Ing. L. Accorsi.*

GÖLCÜK

Builders :	Gölcük Dockyard, Ismit
Launched :	4 Nov., 1935
Displacement :	1,255, tons
Deadweight capacity :	750 tons
Dimensions :	185 × 31½ × 10 feet
Machinery :	B. & W. Diesel. B.H.P. : 700 = 12·5 kts.

BEYKOZ (ex-French *Cyrus*)

Launched :	1922
Measurement :	435 tons gross
Dimensions :	150½ × 25½ × 10 feet
Machinery :	I.H.P. : 160.

Collier.

1952, *Mr. A. Cemaleddin Saracoglu.*

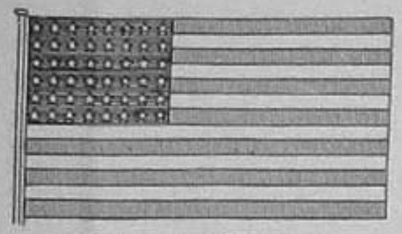
ÜLKÜ (ex-*Shandon*)

Launched :	1919
Displacement :	7,233 tons (3,069 tons gross)
Deadweight capacity:	5,150 tons
Dimensions :	331 × 46¾ × 21¾ (*mean*) feet
Machinery :	Triple expansion. I.H.P. : 1,750 = 10 kts.
Boilers :	3 cylindrical
Fuel :	750 tons

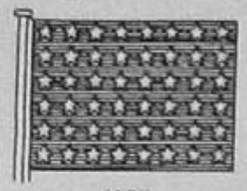
Notes.—Built at West Hartlepool. Purchased in 1934.

UNITED STATES NAVY.

Flags.

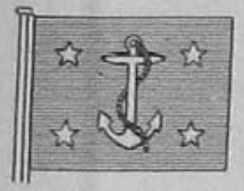


ENSIGN AND MERCANTILE

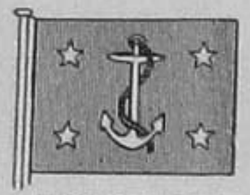


JACK

PRESIDENT



SECRETARY OF THE NAVY



UNDER SECRETARY OF THE NAVY

ASSISTANT SECRETARY OF THE NAVY

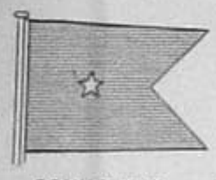
ASSISTANT SECRETARY OF THE NAVY FOR AIR

FLEET ADMIRAL

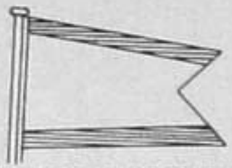
ADMIRAL

VICE-ADMIRAL

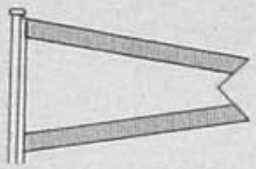
REAR-ADMIRAL



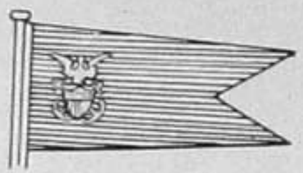
COMMODORE



BROAD COMMAND PENDANT FLOTILLA OR SQUADRON COMMANDER



BURGEE COMMAND PENDANT DIVISION COMMANDER



MERCHANT MARINE NAVAL RESERVE

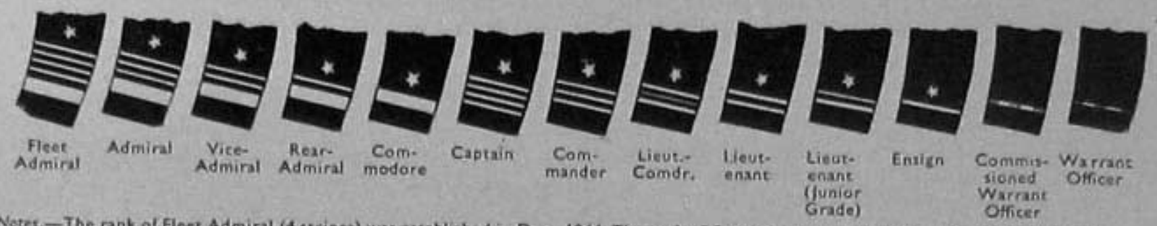
PENDANT

Colour key :
Red
White
Blue

Administration and Command.

Commander-in-Chief : President Dwight D. Eisenhower.
Secretary of the Navy : Mr. Robert B. Anderson.
Under Secretary of the Navy : Mr. Charles S. Thomas.
Assistant Secretary of the Navy : Mr. Raymond H. Fogler.
Assistant Secretary of the Navy (Air) : Mr. James H. Smith, Jr.
Chief of Naval Operations : Admiral Robert B. Carney, U.S.N.
Vice Chief of Naval Operations : Admiral Donald B. Duncan, U.S.N.
Deputy Chief of Naval Operations (Operations) : Vice-Admiral Matthias B. Gardner, U.S.N.
Deputy Chief of Naval Operations (Air) : Vice-Admiral Ralph A. Ofstie, U.S.N.
Commander-in-Chief U.S. Atlantic Fleet : Admiral Lynde D. McCormick, U.S.N.
Commander-in-Chief U.S. Pacific Fleet : Admiral Felix B. Stump, U.S.N.
Naval Attaché and Naval Attaché for Air, London : Rear-Admiral Neil K. Deitrich, U.S.N.

Uniforms.



Notes.—The rank of Fleet Admiral (4 stripes) was established in Dec., 1944. The rank of Commodore is a wartime grade. Commissioned Warrant Officers have one stripe broken with blue, with speciality mark above. Warrant Officers have one half-stripe broken with blue, with speciality mark above.

Strength of United States Fleet.

36 fleet carriers, 66 escort aircraft carriers, 15 battleships, 2 large cruisers (battle cruisers), 29 heavy cruisers, 44 light cruisers, 352 destroyers, 250 escort destroyers, 201 submarines, 365 mine craft, 162 patrol vessels, 900 amphibious craft, 678 fleet auxiliaries, 1,800 service craft. Total: 4,900. Active: 1,200.

Nomenclature.

Aircraft carriers are named mostly after historical naval vessels or battles ; battleships after States ; heavy and light cruisers after large cities ; destroyers after officers and enlisted men of the Navy and Marine Corps, Secretaries of the Navy, Members of Congress and inventors.

Submarines are named after fish and marine creatures ; minesweepers and submarine rescue vessels after birds ; gunboats and escort vessels after small cities ; submarine tenders after pioneers in submarine development and mythological characters ; repair ships after mythological characters; oilers after rivers ; store and cargo ships after stars ; destroyer tenders after natural areas of the United States, e.g., mountain ranges, valleys, etc. ; large seaplane tenders and escort carriers after sounds and bays ; ammunition ships after volcanoes and ingredients of explosives ; transports after flag and general officers ; attack transports and attack cargo ships after counties ; coastal minesweepers after abstract qualities, etc. ; small seaplane tenders after bays, straits and inlets ; ocean-going tugs after Indian tribes ; and harbour tugs after Indian Chiefs and words of the Indian dialect. Occasional exceptions to this system will be found.

Ship's names are prefaced by "U.S.S." (United States Ship) or "U.S.N.S." (U.S. Naval Ship—non-commissioned ships of the Military Sea Transportation Service.

Naval Appropriations.

1948-49, $3,686,733,250	1950-51, $12,385,882,869,	1952-53, $13,000,000,000
1949-50, $4,354,318,042.	1951-52, $15,580,511,392	1953-54, $9,300,000,000

Personnel.

Navy : 817,091 officers and enlisted men actual on 30 June, 1952 (800,000 estimate by 30 June, 1954)
Marine Corps : 231,956 officers and enlisted men on 30 June, 1952 (248,612 estimate by 30 June, 1954)

Ships.

All modern battleships, aircraft carriers, cruisers, etc., have bows of bulbous form. This has been found advantageous when ships are being pressed to their utmosts speeds. In the *Washington* class the effect is only felt at 28 knots and over, and in large cruisers at about 29 knots and over.

All warships from destroyers up to aircraft carriers will have twin 3 inch, 50 cal. automatic mountings replacing quadruple 40 mm. AA. guns. This change will take some time to effect in all ships.

All ships are painted light grey over all, with large serial numbers on bows of all ships, except aircraft carriers and submarines. Aircraft carriers are differentiated by serial numbers painted on funnels and identified from the air by their serial numbers painted prominently on flight deck forward and aft. Submarines carry numbers on conning towers and sometimes also on bows, if they carry them at all.

Mercantile Marine.

Lloyd's Register appendix, 1953 :
Sea, 4,665 vessels of 25,187,092 tons *gross*. *Great Lakes*, 449 vessels of 2,413,885 tons *gross*.

List of classifications of naval vessels and service craft.

Every vessel in the Navy List is given a Distictive Serial number, prefaced by letter symbols denoting the category to which she belongs. A complete list of these symbols, with their significance, as officially promulgated, 26 September 1952, 15 June 1953, and subsequently appears below.

In the following lists the arrangement within the major categories and subcategories is alphabetically by symbols.

Where the identifying classification and hull number of a naval vessel or service vessel is preceded by the letter "E" it indicates that the particular vessel or craft is "Experimental" Similarly the prefix "T" indicates that the vessel is assigned to MSTS (Military Sea Transportation Service).

List of Naval Vessel Classifications

a. Combatant

(1) Warships

Battleship	BB
Cruisers :	
Heavy Cruiser	CA
Guided Missile Heavy Cruiser	CAG
Large Cruiser	CB
Light Cruiser	CL
Ant-Aircraft Light Cruiser	CLAA
Guided Missile Light Cruiser	CLG
Command Ships:	
Large Tactical Command Ship	CBC
Tactical Command Ship	CLC
Aircraft Carriers:	
Attack Aircraft Carrier	CVA
Escort Aircraft Carrier	CVE
Small Aircraft Carrier	CVL
ASW Support Aircraft Carrier	CVS
Destroyers:	
Destroyer	DD
Escort Destroyer	DDE
Radar Picket Destroyer	DDR
Destroyer Leader	DL
Submarines:	
Submarine	SS
Guided Missile Submarine	SSG
Anti-Submarine Submarine	SSK
Nuclear Power Submarine	SSN
Radar Picket Submarine	SSR
Target and Training Submarine	SST

(2) Amphibious Warfare Vessels

Amphibious Force Flagship	AGC
Attack Cargo Ship	AKA
Attack Transport	APA
High Speed Transport	APD
Cargo Submarine	ASSA
Transport Submarine	ASSP
Control Escort Vessel	DEC
Inshore Fire Support Ship	IFS
Flotilla Flagship Landing Ship	LSFF
Infantry Landing Ship (Large)	LSIL
Support Landing Ship (Large) Mk. III	LSSL
Dock Landing Ship	LSD
Medium Landing Ship	LSM
Medium Landing Ship (Rocket)	LSMR
Tank Landing Ship	LST
Vehicle Landing Ship	LSV
Control Submarine Chaser (173')	PCC
Control Escort (180')	PCEC
Control Submarine Chaser (136')	PCSC
Control Submarine Chaser (110')	SCC

(3) Mine Warfare Vessels

Auxiliary Mine Layer	ACM
Mine Sweeper	AM
Coastal Mine Sweeper	AMC
Mine Hunter	AMCU
Motor Mine Sweeper	AMS
Mine Layer	CM
Coastal Mine Layer	CMC
Light Mine Layer	DM
High Speed Mine Sweeper	DMS

(4) Patrol Vessels

Escort Vessels	DE
Radar Picket Escort Vessel	DER
Submarine Chaser (173')	PC
Escort (180')	PCE
Rescue Escort (180')	PCER
Submarine Chaser (136')	PCS
Frigate	PF
Motor Gunboat	PGM
River Gunboat	PR
Yacht	PY
Submarine Chaser (110')	SC

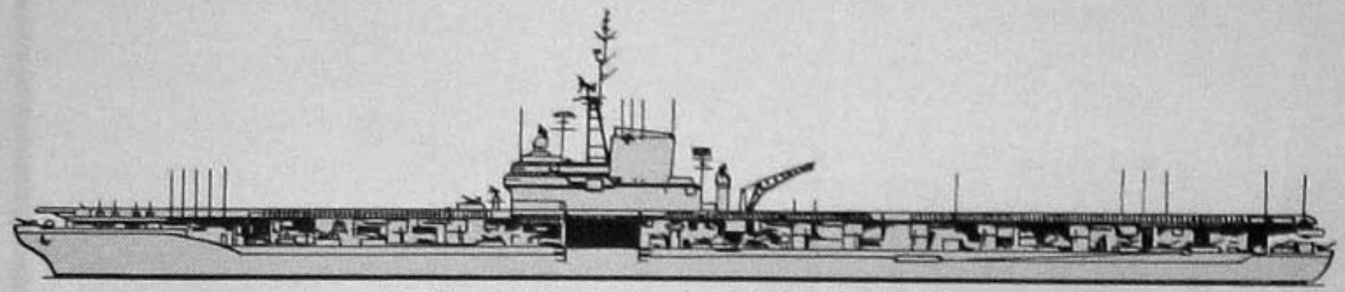
b. Auxiliary Vessels

Destroyer Tender	AD
Degaussing Vessel	ADG
Ammunition Ship	AE
Store Ship	AF
Miscellaneous	AG
Icebreaker	AGB
Motor Torpedo Boat Tender	AGP
Surveying Ship	AGS
Coastal Surveying Ship	AGSC
Auxiliary Submarine	AG(SS)
Hospital Ship	AH
Cargo Ship	AK
Light Cargo Ship	AKL
Net Cargo Ship	AKN
General Stores Issue Ship	AKS
Cargo Ship and Aircraft Ferry	AKV
Net Laying Ship	AN
Oiler	AO
Gasoline Tanker	AOG
Replenishment Fleet Tanker	AOR
Transport	AP
Self-propelled Barracks Ship	APB
Small Coastal Transport	APC
Repair Ship	AR
Battle Damage Repair Ship	ARB
Cable Repairing or Laying Ship	ARC
Internal Combustion Engine Repair Ship	ARG
Heavy-hull Repair Ship	ARH
Landing Craft Repair Ship	ARL
Salvage Vessel	ARS
Salvage Lifting Vessel	ARSD
Salvage Craft Tender	ARST
Aircraft Repair Ship	ARV
Aircraft Repair Ship (Aircraft)	ARVA
Aircraft Repair Ship (Engine)	ARVE
Submarine Tender	AS
Submarine Rescue Vessel	ASR
Auxiliary Ocean Tug	ATA
Fleet Ocean Tug	ATF
Rescue Ocean Tug	ATR
Seaplane Tender	AV
Guided Missile Ship	AVM
Small Seaplane Tender	AVP
Aviation Supply Ship	AVS
Distilling Ship	AW
Unclassified Miscellaneous	IX

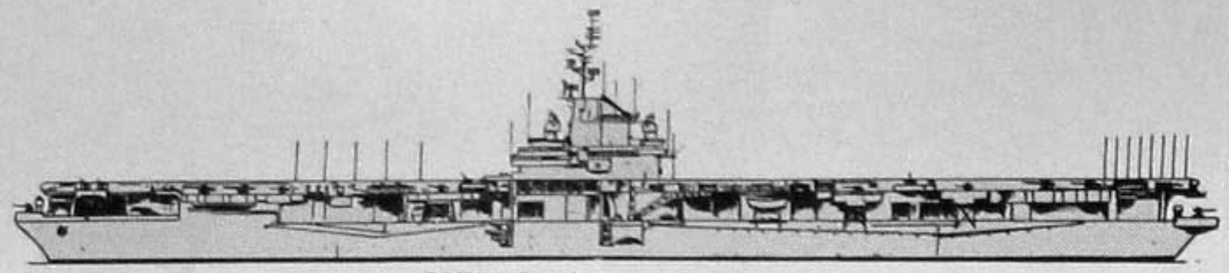
Service Craft

Crane Ship	AB
Large Auxiliary Floating Dry Dock	AFDB
Small Auxiliary Floating Dry Dock	AFDL
Medium Auxiliary Floating Dry Dock	AFDM
Barracks Ship (non-self-propelled)	APL
Floating Dry Dock	ARD
Large Catapult Lighter	AVC
Utility Landing Craft	LCU
Mine Sweeping Boat	MSB
Motor Torpedo Boat	PT
Coastal Yacht	PYC
Submersible Craft	X
Sweeper Device	XMAP
Miscellaneous Auxiliary	YAG
Open Lighter	YC
Car Float	YCF
Open Cargo Lighter	YCK
Aircraft Transportation Lighter	YCV
Floating Derrick	YD
Diving Tender	YDT
Covered Lighter (self-propelled)	YF
Ferryboat or Launch	YFB
Floating Dry Dock	YFD
Covered Lighter (non-self-propelled)	YFN
Large Covered Lighter	YFNB
Covered Lighter (for use with dry docks)	YFND
Covered Lighter (special purpose)	YFNG
Lighter (special purpose)	YFNX
Floating Power Barge	YFP
Refrigerated Covered Lighter (self-propelled)	YFR
Refrigerated Covered Lighter (non-self-propelled)	YFRN
Covered Lighter (Range Tender)	YFRT
Torpedo Transportation Lighter	YFT
Garbage Lighter (self-propelled)	YG
Garbage Lighter (non-self-propelled)	YGN
House Boat	YHB
Dredge	YM
Motor Mine Planter	YMP
Auxiliary Motor Mine Sweeper	YMS
Gate Vessel	YNG
Fuel Oil Barge (self-propelled)	YO
Gasoline Barge (self-propelled)	YOG
Gasoline Barge (non-self-propelled)	YOGN
Fuel Oil Barge (non-self-propelled)	YON
Oil Storage Barge	YOS
Patrol Vessel	YP
Floating Pile Driver	YPD
Pontoon Stowage Barge	YPK
Floating Workshop	YR
Submarine Repair and Berthing Barge	YRB
Submarine Repair, Berthing and Messing Barge	YRBM
Floating Dry Dock Workshop (Hull)	YRDH
Floating Dry Dock Workshop (Mach)	YRDM
Covered Lighter (Repair)	YRL
Seaplane Wreckage Derrick	YSD
Sludge Removal Barge	YSR
Large Harbour Tug	YTB
Small Harbour Tug	YTL
Medium Harbour Tug	YTM
Torpedo Testing Barge	YTT
Catapult Lighter	YVC
Water Barge (self-propelled)	YW
Water Barge (non-self-propelled)	YWN

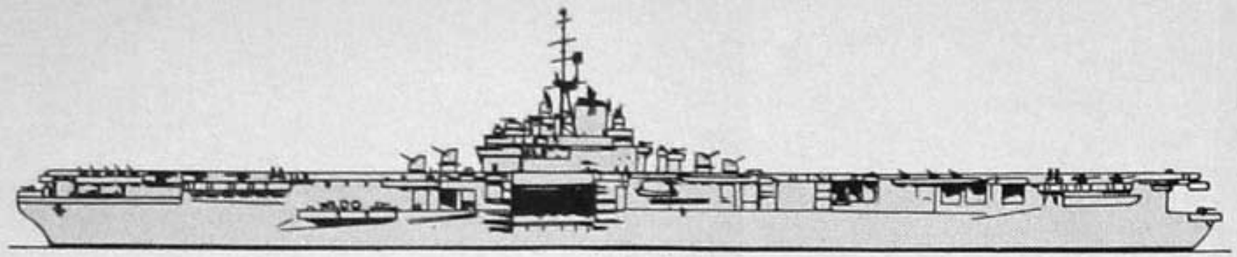
148R



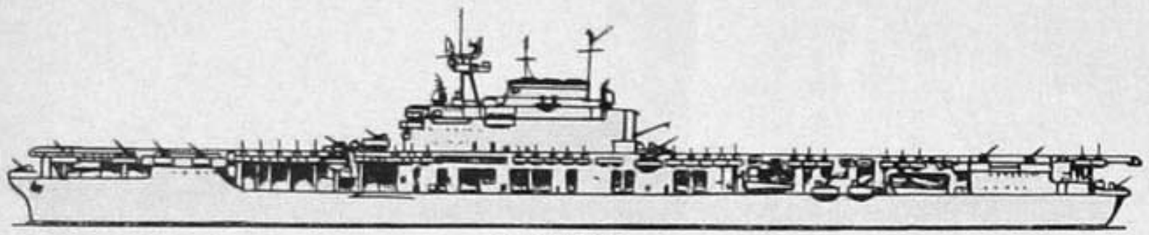
CORAL SEA, FRANKLIN D. ROOSEVELT, MIDWAY.



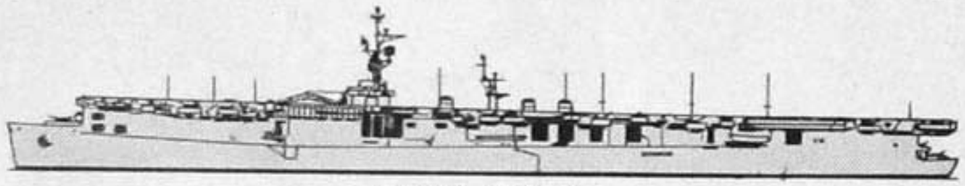
ORISKANY. Improved ESSEX *Class.*



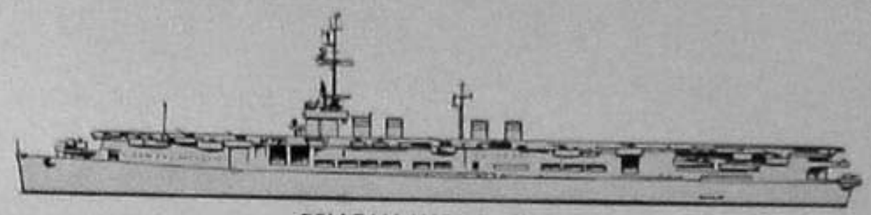
Original ESSEX *Class.*



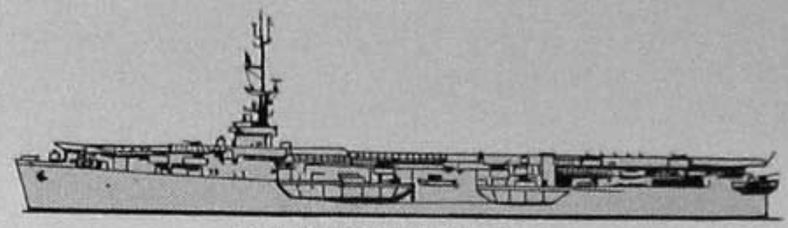
ENTERPRISE.



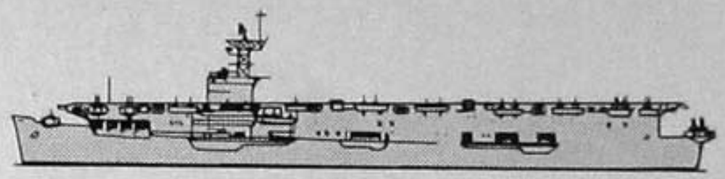
SAIPAN, WRIGHT.



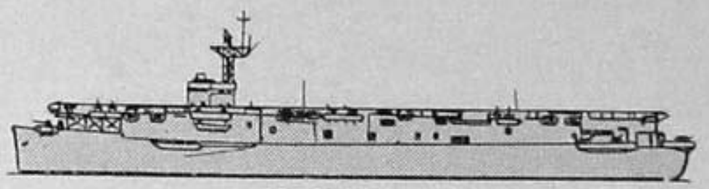
BELLEAU WOOD *Class.*



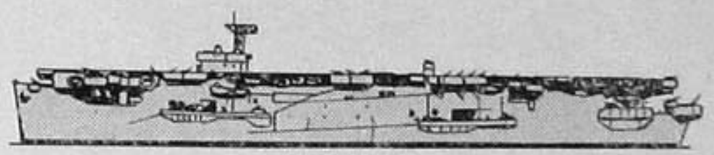
COMMENCEMENT BAY *Class.*



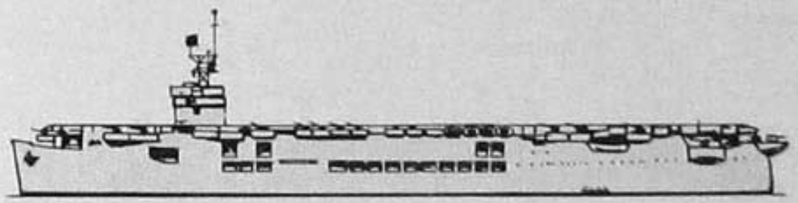
ANZIO *Class.*



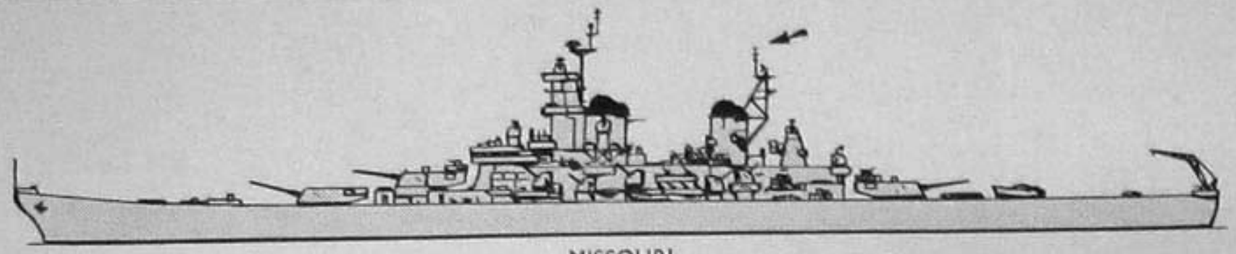
BOGUE *Class.*



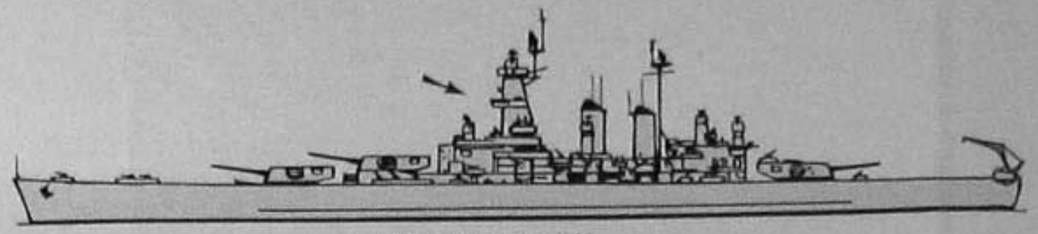
ALTAMAHA



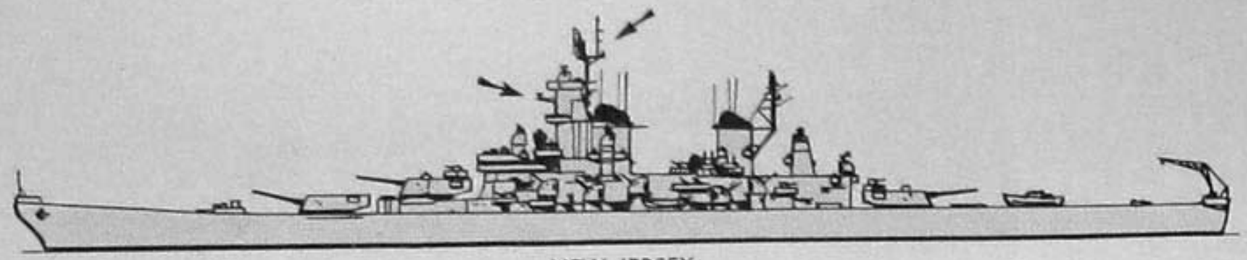
SUWANEE *Class.*



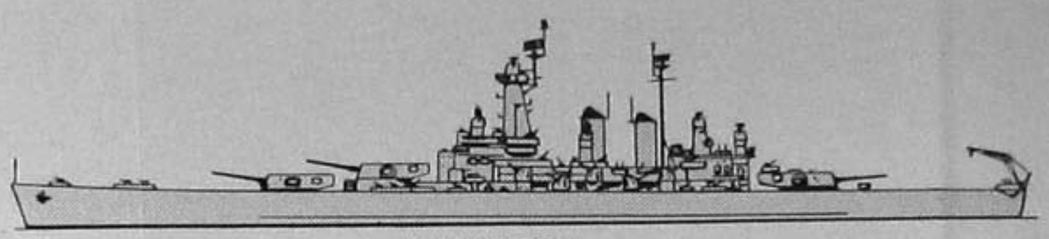
MISSOURI.



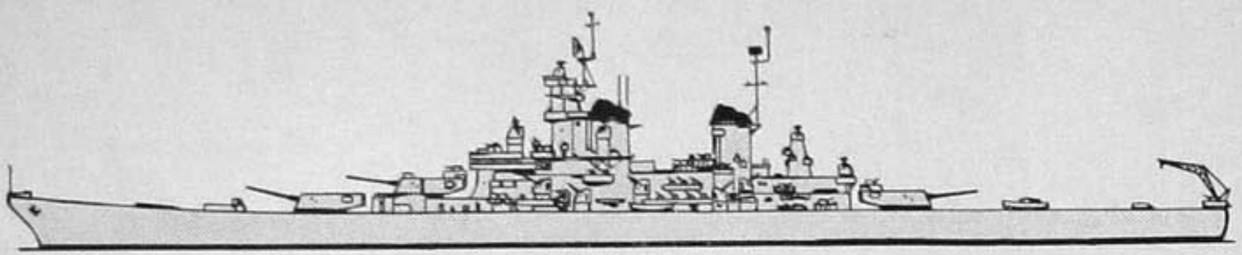
NORTH CAROLINA.



NEW JERSEY.

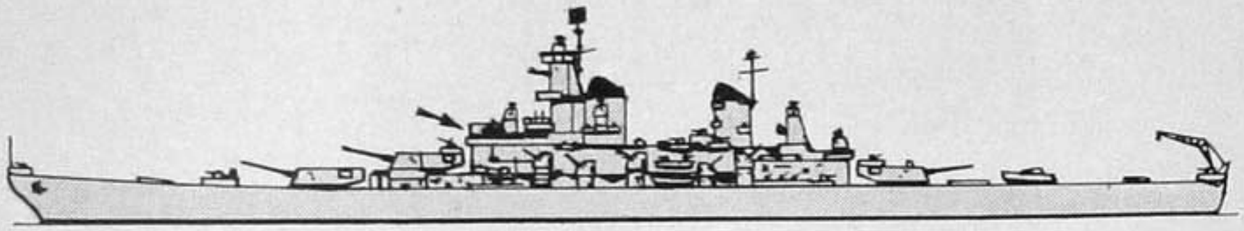


WASHINGTON.

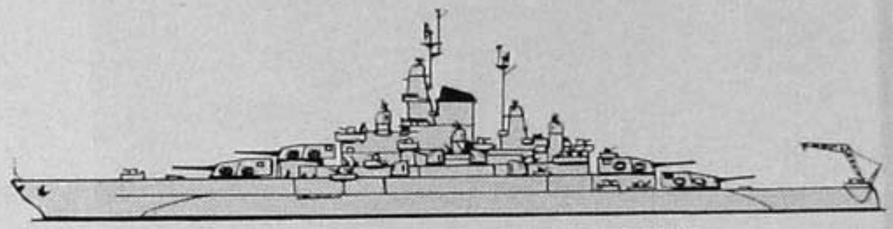


WISCONSIN.

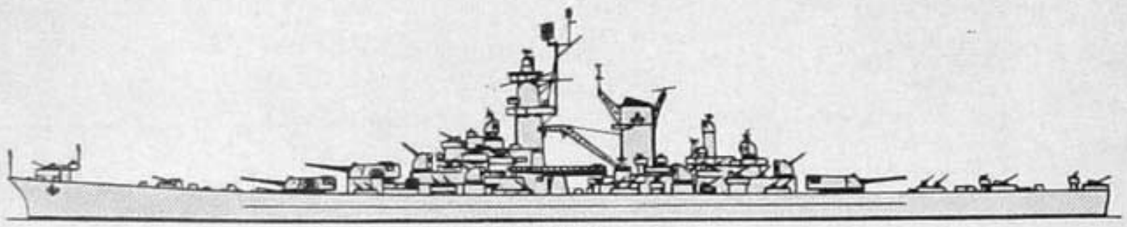
ALABAMA, INDIANA, MASSACHUSETTS, SOUTH DAKOTA.



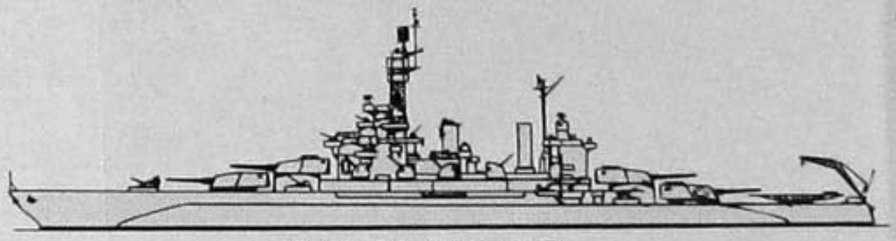
IOWA.



CALIFORNIA, TENNESSEE, WEST VIRGINIA.

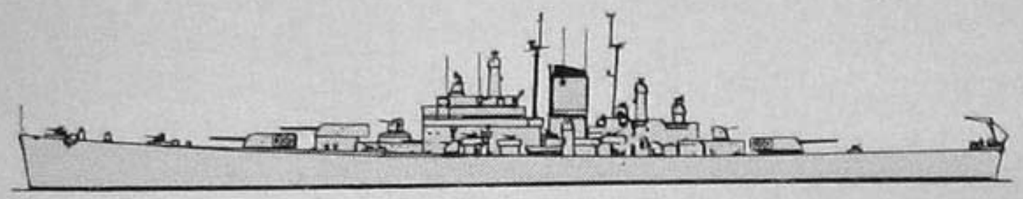


ALASKA, GUAM.

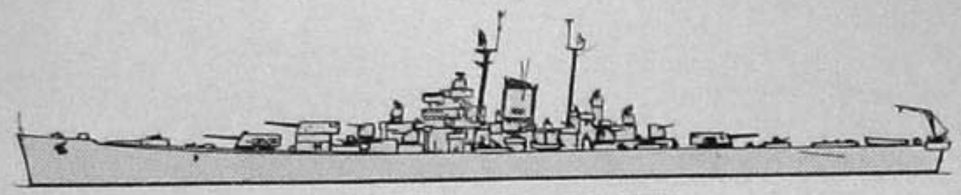


COLORADO, MARYLAND.

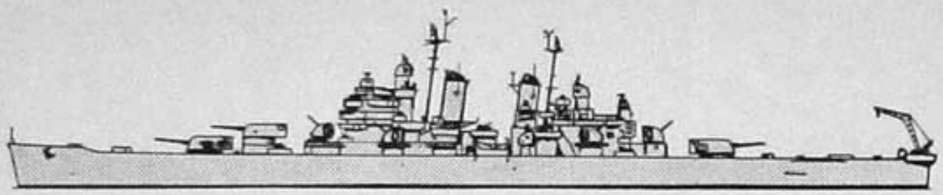
147R



DES MOINES, NEWPORT NEWS, SALEM.

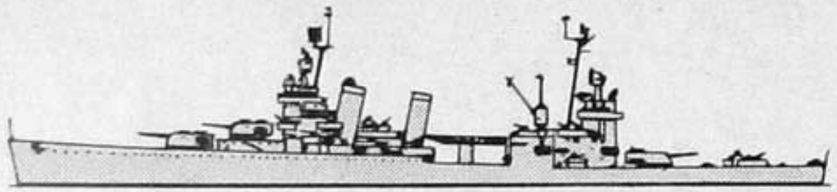


ALBANY, OREGON CITY, ROCHESTER.

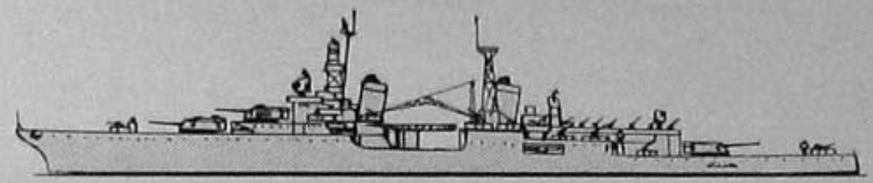


BALTIMORE *Class.*

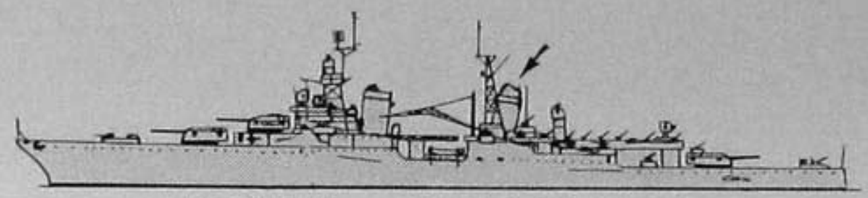
WICHITA.



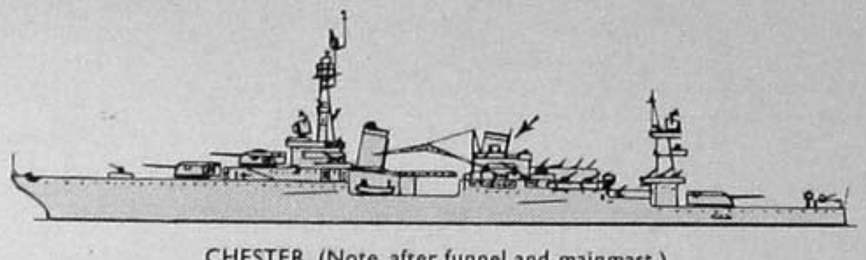
NEW ORLEANS *Class.*



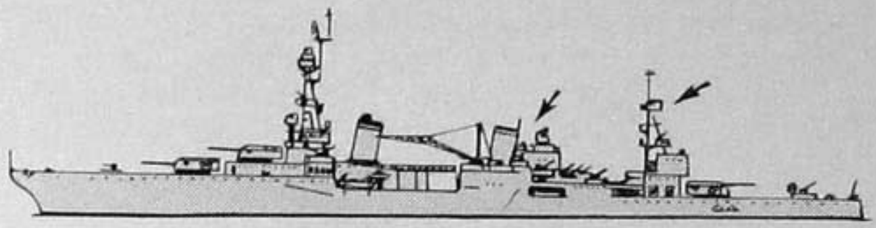
PORTLAND (Forecastle breaks before forefunnel.)



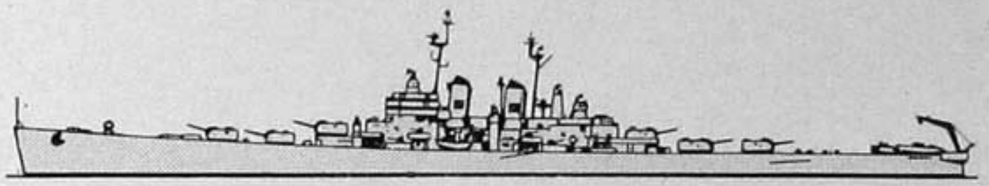
AUGUSTA (Forecastle breaks abaft forefunnel.)



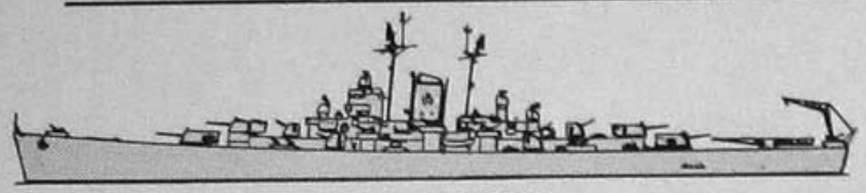
CHESTER (Note after funnel and mainmast.)



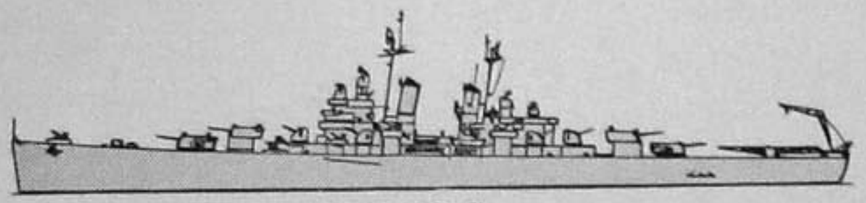
LOUISVILLE.



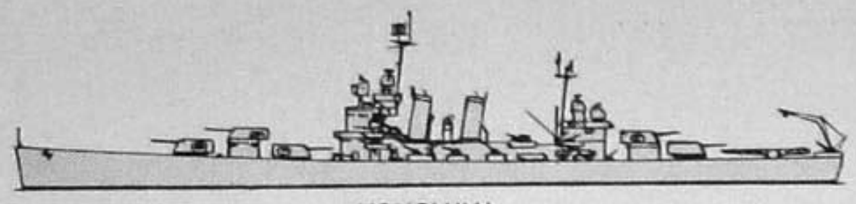
WORCESTER.
ROANOKE without erection forward and no stumps before second funnel.



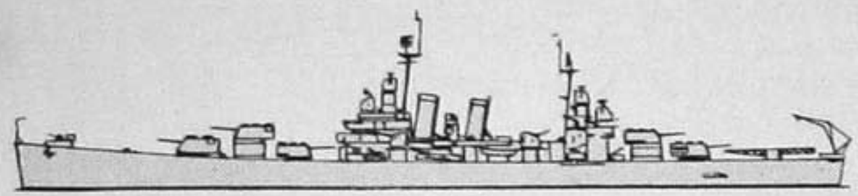
FARGO, HUNTINGTON.



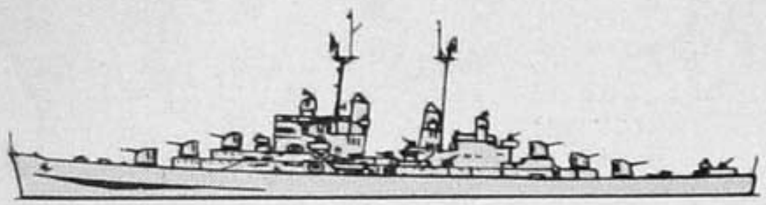
CLEVELAND *Class.*



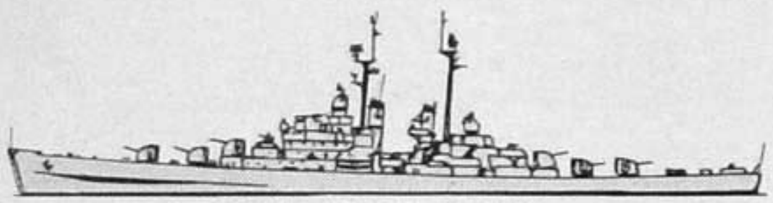
HONOLULU.



SAVANNAH.



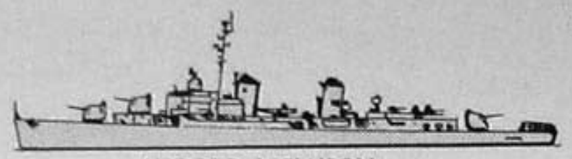
OAKLAND, SAN DIEGO *Types.*



FRESNO, JUNEAU, SPOKANE.

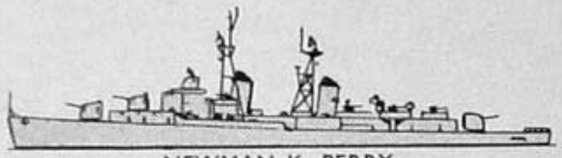
ROBERT A. OWENS.

BASILONE.



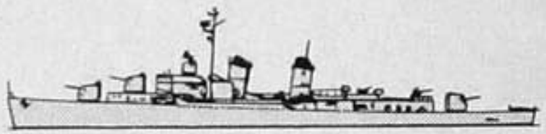
HAROLD J. ELLISON.
(GEARING *Class* with polemast.)

PERRY.
(GEARING *Class* with tripod mast.)

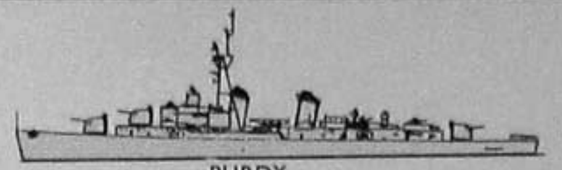


NEWMAN K. PERRY.
(Radar Picket GEARING *Class* with tripod.)

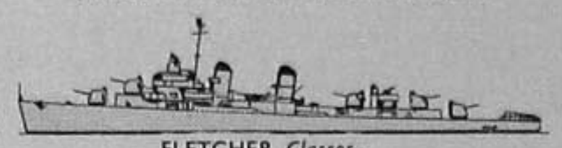
GOODRICH.
(Radar Picket GEARING *Class* with polemast.)



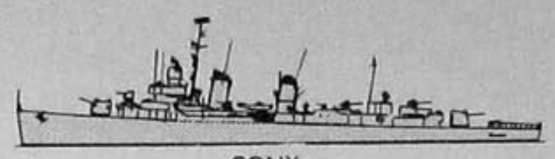
HYMAN.
(ALLEN M. SUMNER *Class* with polemast.)



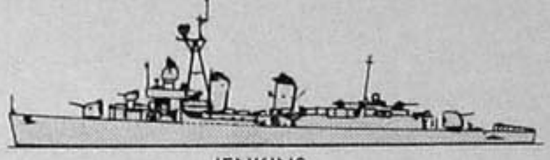
PURDY.
(ALLEN M. SUMNER *Class* with tripod.)



FLETCHER *Classes.*
(Later type. Earlier vessels have higher fire control.)

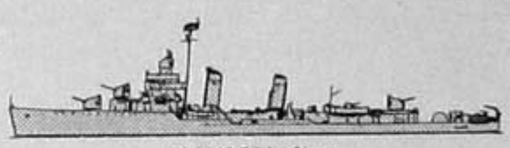


CONY.
(Converted FLETCHER *Class* with polemast.)

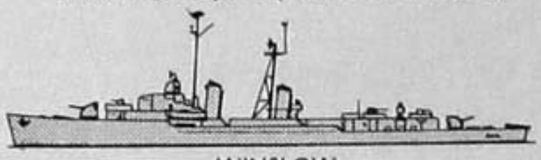


JENKINS.
(Converted FLETCHER *Class* with tripod mast.)

GLEAVES and BENSON *Classes.*



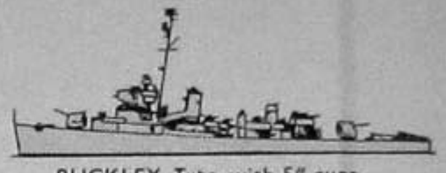
ELLYSON *Class.*
Fast Minesweepers. (Modified Destroyers.)



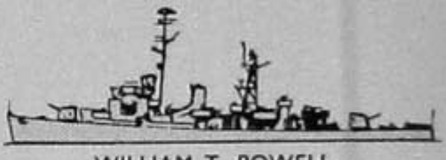
WINSLOW.
Experimental Radar Picket Destroyer.

RUDDEROW *Class.*

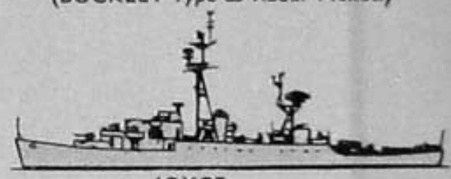
JOHN C. BUTLER *Class.*



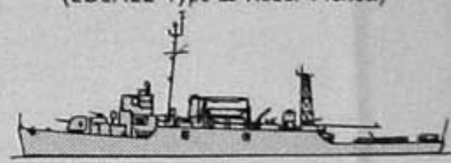
BUCKLEY *Type* with 5" guns.



WILLIAM T. POWELL.
(BUCKLEY *Type* as Radar Picket.)



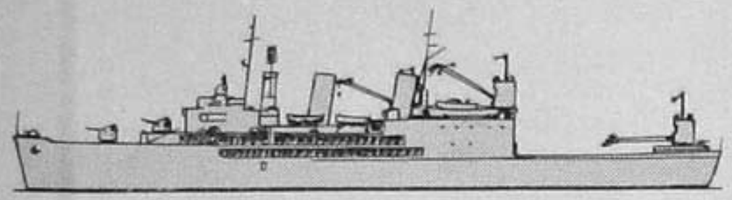
JOYCE.
(EDSALL *Type* as Radar Picket.)



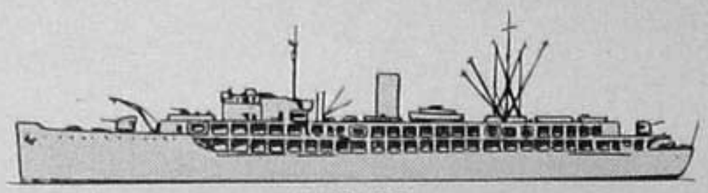
LLOYD (Lattice Main.)
Fast Transport (Modified Destroyer Escort.)

CARPELLOTTI *Type.*
Fast Transports. (Modified Destroyer Escorts.)

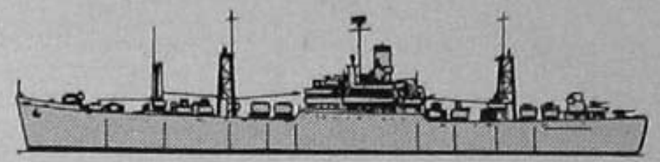
Scale : 150 ft. = 1 inch



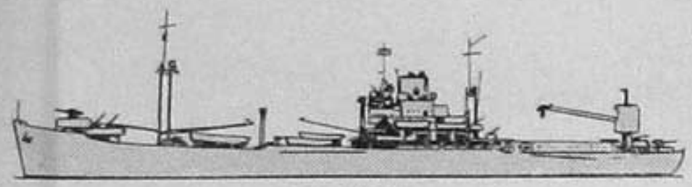
ALBEMARLE.
Seaplane Tender.



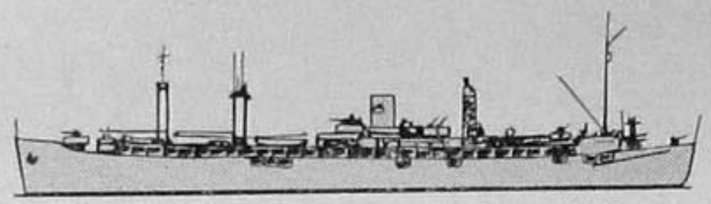
CASCADE.
Destroyer Tender.



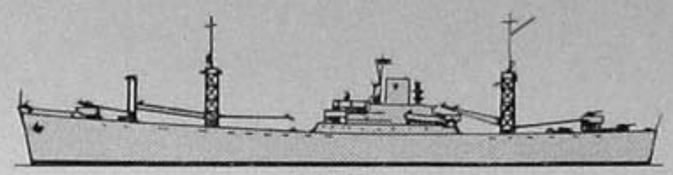
OGLETHORPE.
Attack Cargo Ship.



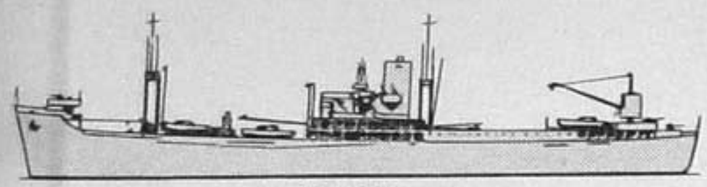
POKOMOKE.
Seaplane Tender.



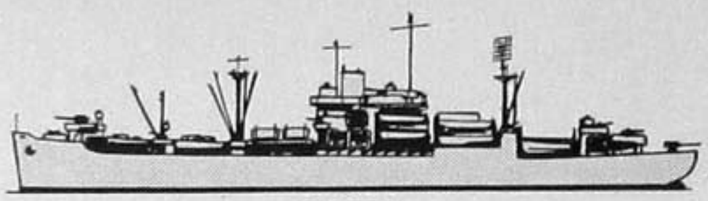
DELTA (" Goalposts " in place of crane in BRIAREUS.)
Repair Ship.



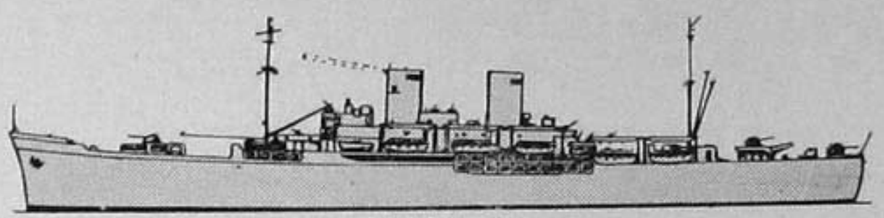
ELECTRA.
Attack Cargo Ship.



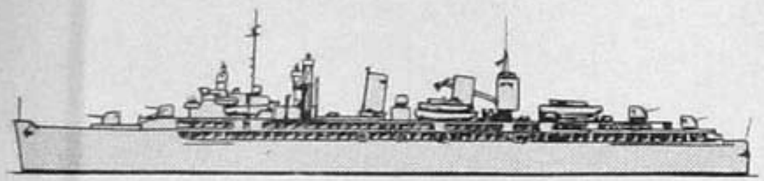
TANGIER.
Seaplane Tender.



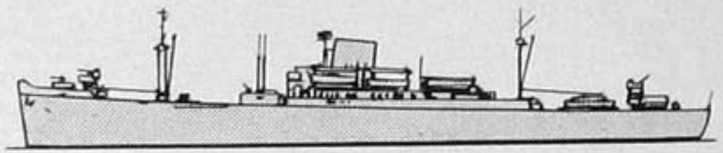
CAMBRIA.
Attack Transport.



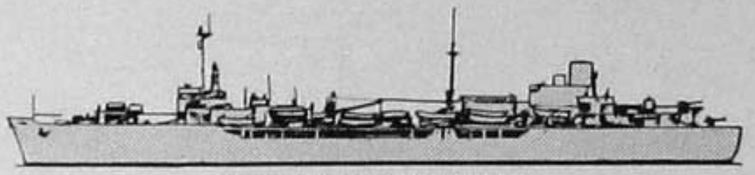
GENERAL *Class*.
Transport.



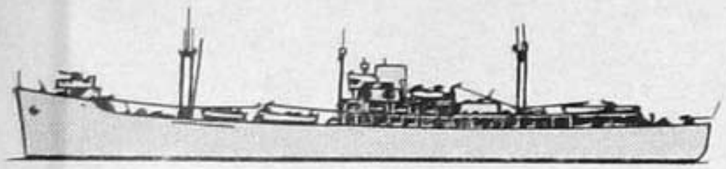
SPERRY (PRAIRIE similar except for Bofors in " B " position.)
Submarine Tender.



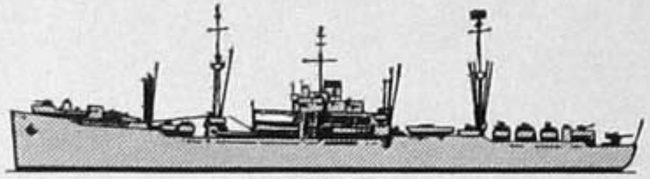
PRESIDENT *Type*.
Attack Transports.



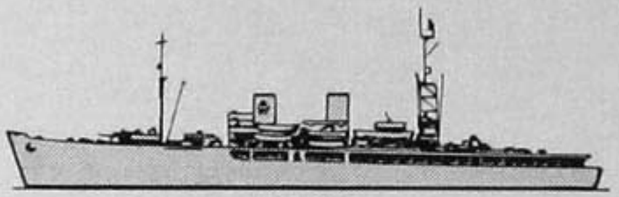
GENERAL M. B. STEWART.
MSTS Transport.



GRIFFIN.
Submarine Tender.



LATIMER.
Attack Transport.



TANNER.
Surveying Ship, Attack Cargo Type.

FRANKLIN D. ROOSEVELT (see next page).

Added 1952, U.S. Navy, Official.

New Construction.

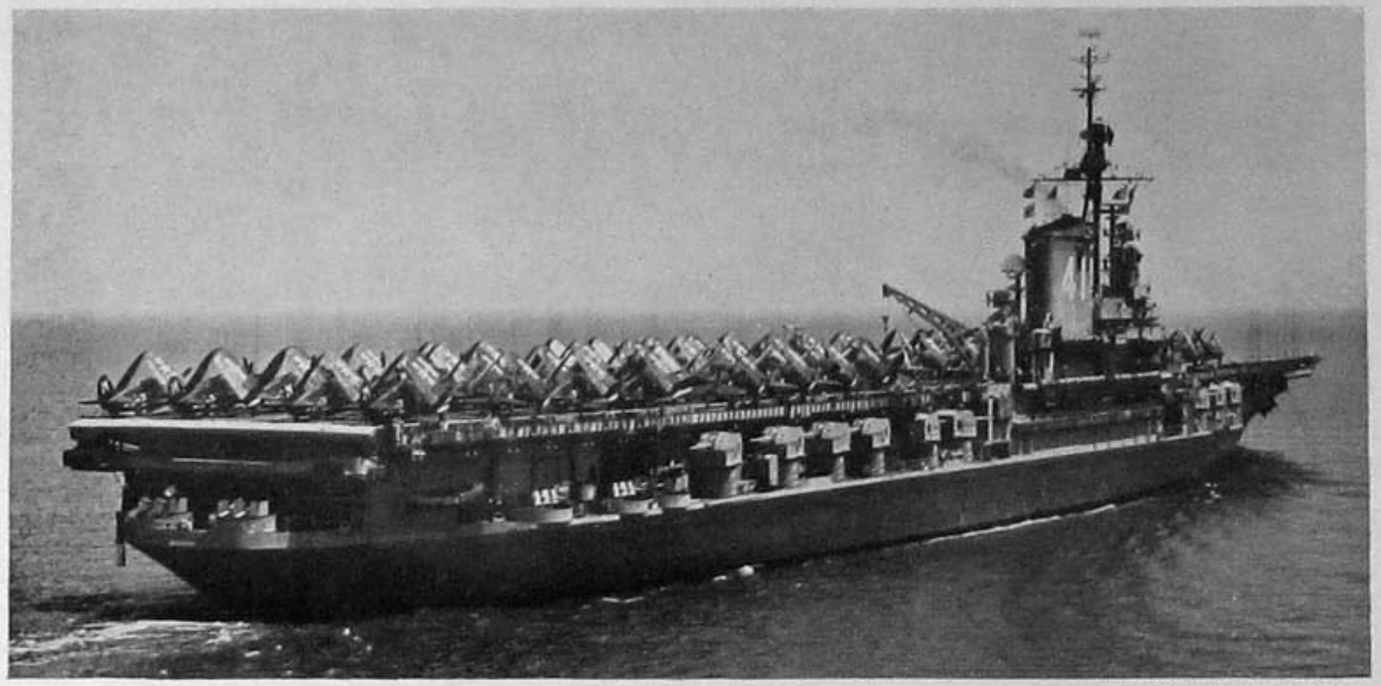
2 "Forrestal" Class

	FORRESTAL	SARATOGA
Displacement :	*Forrestal* 59,900 tons *standard*, *Saratoga* 60,000 tons (75,000 tons *full load*)	
Dimensions :	1,040 (*o.a.*) × 252 (*extreme width*), 128 (*waterline beam*) feet	
Aircraft :	100	
Machinery :	4 turbines. Speed: 33 kts. (*Saratoga* 35 kts.)	
Complement :	3,500	

General Notes.—World's largest aircraft carriers ever to be built. Flush-decked with retractable bridge. Four catapults and four lifts, and three separate launching areas for aircraft. *Forrestal* (contract awarded 12 July, 1951: Engineers, Westinghouse Electric Corporation) was named after the Secretary of Defense who was in office when the subsequently cancelled Heavy Carrier *United States* (CVA 58) was named in 1949. To cost $218,000,000 (*Forrestal*), $209,700,000 (*Saratoga*).

Construction Notes.—The design calls for a flight deck about 80 feet longer than that provided in the largest existing carriers of the "Midway" class to operate larger, heavier carrier-based naval aircraft of the newest designs from her decks. Will have increased catapult and arresting capacity, larger elevators, and higher hangar decks, and television system to aid in landing on aircraft. There will be added armour and improved underwater protection. In *Forrestal*, which will have the latest angled deck arrangement, stacks comparable with those of old *Ranger* will be used. Design of cancelled CVA 58, in which the flight deck was to have been a strength deck by reducing the openings in the hangar sides will be incorporated. *Saratoga* to have hull as *Forrestal*, bow to be closed up to the flight deck for seaworthiness in all types of weather; machinery arrangements to produce somewhat higher speeds. *Forrestal* expected to be completed approximately 29 months after the laying of the keel; she will be launched in March 1954 and completed in Dec. 1954. *Saratoga* to be completed in 1956.

No.	*Name*	*Builders*	*Laid down*
CVA 59	*Forrestal*	Newport News Shipbuilding & Drydock Co.	14 July 1952
CVA 60	*Saratoga*	New York Naval Shipyard, Brooklyn	16 Dec. 1952



MIDWAY. (see next page)

Added 1951, U.S. Navy, Official.

Attack Aircraft Carriers (CVA).

3 "Midway" Class.

CORAL SEA

FRANKLIN D. ROOSEVELT (ex-*Coral Sea*)

MIDWAY

CORAL SEA. 1953, U.S. Navy, Official.

Displacement:	45,000 tons (60,000 tons *full load*)
Dimensions:	Length: 968 (*o.a.*) feet. Beam: 113 feet (hull). Width: 136 (*max.*) feet. Draught: 32½ feet
Guns:	14—5 inch, 54 cal.; 40—3 inch, 50 cal.
Aircraft:	137 (including large bombers of latest type)
Machinery:	Geared turbines. 4 shafts. S.H.P.: 212,000 = 33 kts.
Boilers:	12
Complement:	2,510 (peace). 3,300 (war)

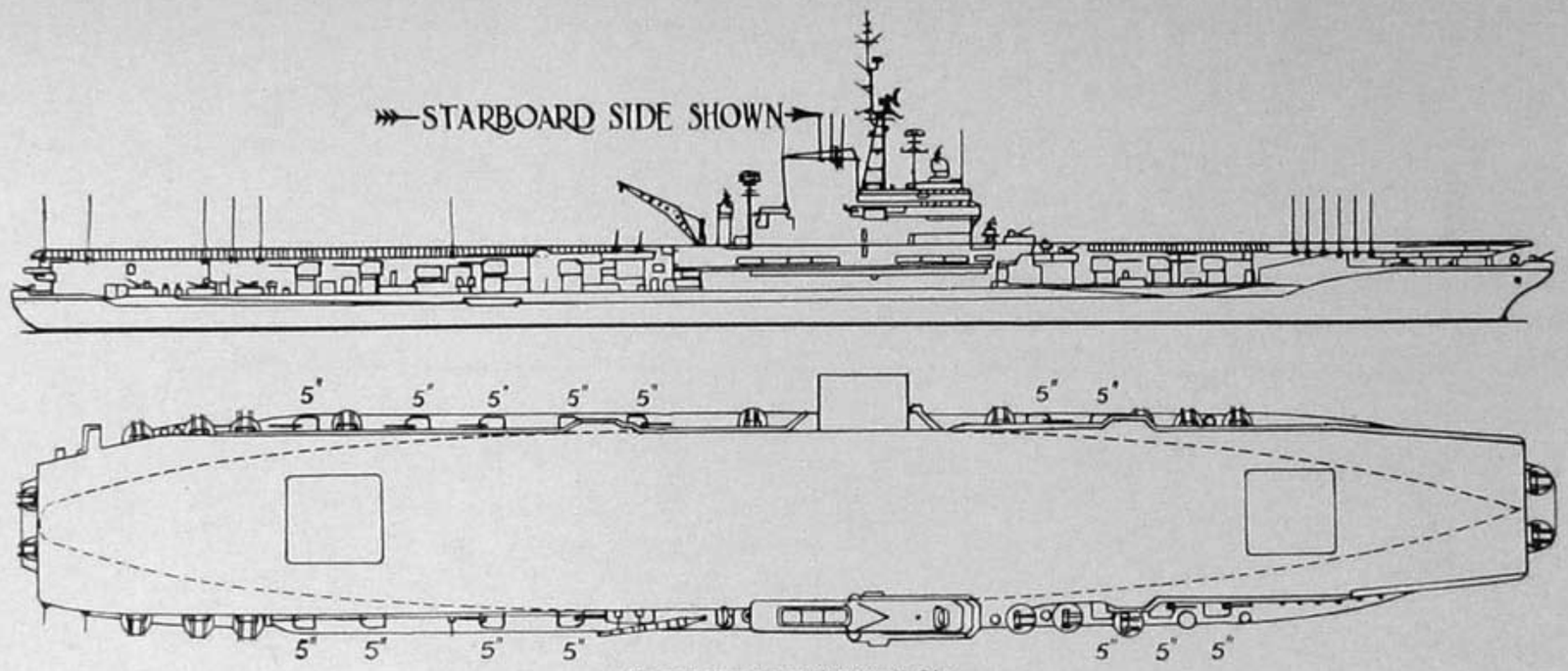
General Notes.—Are the most extensively welded ships in U.S. Navy, and cost $90,000,000 each. On Sept. 6, 1947, the first carrier-borne guided missile was launched from the flight deck of the *Midway*. On March 7, 1949, a Lockheed P2V (Neptune) long-range bomber which can handle atomic bombs took off with rocket assistance from the *Coral Sea* with a load of 37 tons on a 2,000-mile flight. Three more ships of this class (CVB 44, 56, 57) were projected, but cancelled in 1945.

Armour Notes.—Officially stated that these ships are protected by heavy armour, intricate water-tight compartments and an improved system of damage control. Armoured flight deck is 932 × 113 feet, covered with non-skid surface material; it was strengthened in all 3 ships during 1947-48, to enable heavier aircraft to be handled.

Gunnery Notes.—*Midway* and *Franklin D. Roosevelt* originally had eighteen 5 inch. They now mount fourteen 5 inch, 54 cal. d.p. They and *Coral Sea* now have twin 3-inch mountings in place of the former quadruple 40 mm. mountings.

Appearance Notes.—*Coral Sea* differs in her gun layout from other two; there were four 5-inch guns abaft funnel on starboard side instead of 6.

Classification Notes.—All large aircraft carriers, i.e. CVB's and CV's, were reclassified as Attack Aircraft Carriers, CVA, in Oct. 1952.



Plan and elevation of "Midway" Class

No.	Name	Builders	Machinery	Laid down	Launched	Completed
CVA 43	*Coral Sea*	Newport News Co.	Builders	10 July 1944	2 Apr. 1946	1 Oct. 1947
42	*Franklin D. Roosevelt*	New York Navy Yard		1 Dec. 1943	29 Apr. 1945	27 Oct. 1945
41	*Midway*	Newport News Co.	Builders	27 Oct. 1943	20 Mar. 1945	11 Sept. 1945

Flight Deck Notes.—The angled deck arrangement may be fitted to "Midway" and "Essex" class aircraft carriers. Only half the arresting gear for normal operations is required, eliminates crash barriers, releasing considerable topside weight and gallery deck space.

Attack Aircraft Carriers (CVA).

14 "Oriskany" (Improved "Essex") Class.

ORISKANY

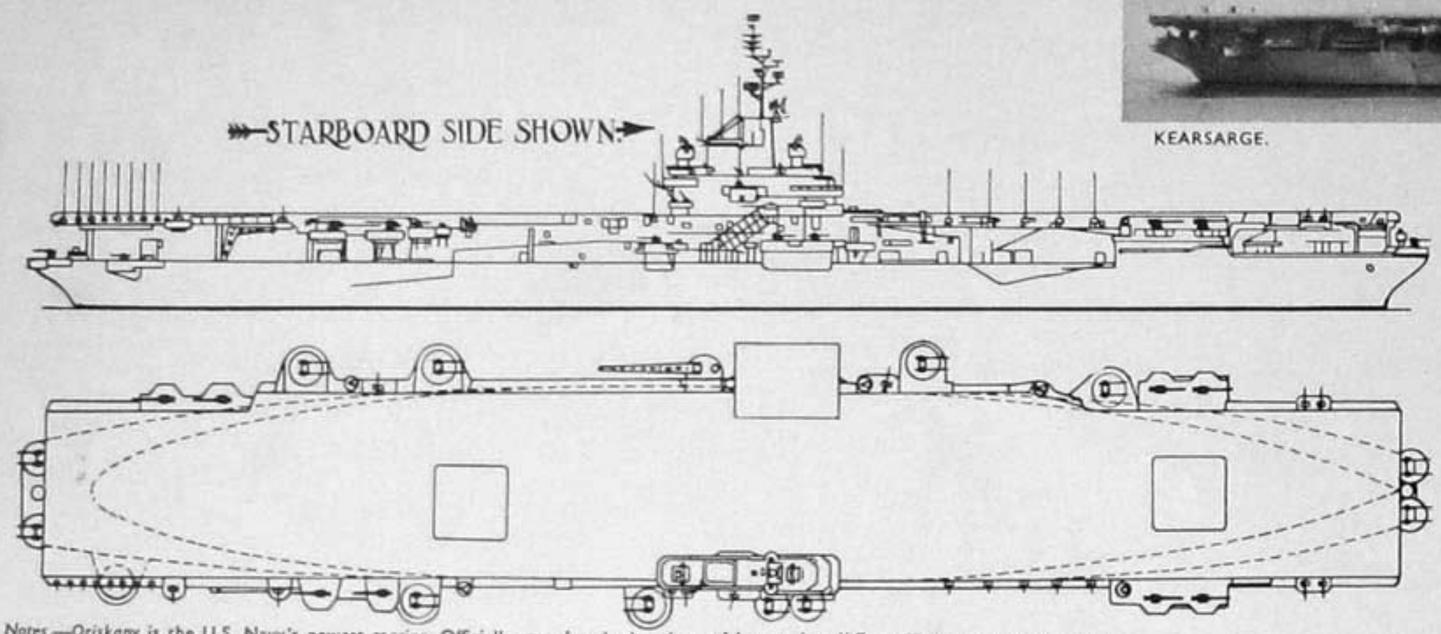
No.:	CVA 34
Builders:	New York Navy Yard
Ordered:	7 Aug. 1942
Laid down:	1 May 1944
Launched:	13 Oct. 1945
Completed:	25 Sept. 1950

BENNINGTON
BON HOMME RICHARD
ESSEX
HANCOCK (ex-*Ticonderoga*)
HORNET (ex-*Kearsage*)
INTREPID
KEARSARGE
LAKE CHAMPLAIN
RANDOLPH
SHANGRI-LA
TICONDEROGA (ex-*Hancock*)
WASP (ex-*Oriskany*)
YORKTOWN (ex-*Bon Homme Richard*)

Displacement:	38,000 tons *standard* (39,800 to 40,000 tons *full load*)
Dimensions:	Length: 888 (o.a.) feet. Beam: 129 feet (hull—over bulges). Width: 147 feet (extreme). Draught: 30½ (*max.*) feet
Guns:	8—5 inch, 38 cal.; 28—3 inch, 50 cal. in twin mounts
Aircraft:	100
Armour:	3" sides, 3" decks.
Machinery:	Geared turbines. 4 shafts. S.H.P.: 150,000 = 33 kts.
Boilers:	8 Babcock & Wilcox
Complement:	About 2,100 (peacetime), 2,800 to 3,300 (wartime)

WASP. 1953, *U.S. Navy, Official.*

KEARSARGE. 1953, *U.S. Navy, Official.*



Notes.—Oriskany is the U.S. Navy's newest carrier. Officially stated to be heavier and larger than "Essex" class carriers (original sister ships). First of a new type to which modified "Essex" class carriers conform. Construction was delayed with a view to recasting of plans. Was completed to a modified design with a smaller island, heavier decks and handling gear to operate bigger aircraft. She has larger lifts, more powerful catapults, a stronger runway and increased stowage for petrol as compared with "Essex" class. Bulges offset the extra weight thus added. Of the original "Essex" class, the *Essex* herself, *Bennington*, *Bon Homme Richard*, *Hancock*, *Hornet*, *Intrepid*, *Kearsarge*, *Lake Champlain*, *Randolph*, *Shangri-La*, *Ticonderoga*, *Wasp* and *Yorktown* have been or are being modernised to the "Oriskany" class and are known as a separated class. (For builders and construction dates see next page). *Bon Homme Richard* and *Shangri-La* are to be fitted with the angled deck.

Gunnery Notes.—3 inch guns replace 40 mm. as anti-aircraft protection.

ORISKANY. 1951, *U.S. Navy, Official*

Attack and Support Aircraft Carriers (CVA and CVS).

10 Original "Essex" Class.

LEYTE. 1953, U.S. Navy, Official.

RANDOLPH (note deck-edge elevator). Added 1949, U.S. Navy, Official.

ANTIETAM
BOXER
BUNKER HILL
FRANKLIN
LEYTE (ex-*Crown Point*)
LEXINGTON (ex-*Cabot*)
PHILIPPINE SEA (ex-*Wright*)
PRINCETON
TARAWA
VALLEY FORGE

Displacement:	27,100 tons (approx. 37,500 tons *full load*)
Dimensions:	Length: 874 (pp.), 888 (o.a.) feet. (*early ships are 876 (o.a.) feet.) Beam: 93 feet (hull), Width: 147 feet (extreme). Antietam 181 feet (including angled deck). Draught: 30 (max.) feet
Guns:	12—5 inch, 38 cal., 44 to 72—40 mm. AA., 52—20 mm. (quadruple mounts). Some active ships have 3-inch guns in place of 40 mm. mounts., 36 to 52—20 mm. (twin mounts)
Aircraft:	55 to 100 (107 have been carried for close stowage)
Armour:	3"—2" side amidships, 3" hangar deck, 1½" flight deck, 1½" upper deck
Machinery:	Geared turbines. 4 shafts. S.H.P.: 150,000 = 33 kts.
Boilers:	8 Babcock & Wilcox
Complement:	2,100 (ship's company plus air group personnel) peacetime; 2,800 (plus or minus) wartime

General Notes.—First of class ordered 1940. Essex was built in 20 months, *Yorktown* in 17½ months. Contracts were changed from original assignments in some instances. Later ships of this class of improved design, with stronger flight decks, and were more thoroughly sub-divided. Two ships under construction at New York Navy Yard (*Reprisal*) and Newport News (*Iwojima*, ex-*Crown Point*) were cancelled in Aug. 1945, and six others in March, 1945. *Princeton* launched the new guided missile "Regulus" at sea. The weapon can be installed on a variety of naval ships at low cost and used multi-operationally.

13 units of this class have been or are being modernised on similar lines to *Oriskany*, completed in modernised state (see preceding page).

Engineering Note.—In Nov., 1945, *Lake Champlain* made Atlantic crossing from Gibraltar to Newport News in 4 days, 8 hours, 51 minutes, equal to an average speed of 32·048 kts. *Philippine Sea* made run from Yokahama to San Francisco in 7 days 13 hours, an average speed of 25·2 kts.

Appearance Notes.—Later ships of this class have bow and stern of modified form. Flight deck of *Antietam* angles 8 degrees, 9 minutes to port with arresting gear oriented to the centre line of the angled deck. If this modification is permanently adopted and applied to other ships a future change may be the transfer of the elevator to the starboard side. The angled deck may be incorporated into the design of all new aircraft carriers. *Lexington* is to be given the angled deck.

ANTIETAM (showing new angled or "canted" deck). 1953, U.S. Navy, Official.

No	Name	Builders	Machinery	Laid down	Launched	Completed
CVA 9	**Essex*	Newport News S.B. & D.D. Co.	Builders	28 Apr. 1941	31 July 1942	31 Dec. 1942
CVA10	**Yorktown*			1 Dec. 1941	21 Jan. 1943	15 May 1943
CVA11	**Intrepid*			1 Dec. 1941	26 Apr. 1943	16 Aug. 1943
CVA12	**Hornet*			3 Aug. 1942	29 Aug. 1943	29 Nov. 1943
CVS 13	**Franklin*			7 Dec. 1942	14 Oct. 1943	31 Jan. 1944
CVA14	*Ticonderoga*			1 Feb. 1943	7 Feb. 1944	10 Oct. 1944
CVA15	*Randolph*			10 May 1943	28 June 1944	9 Oct. 1944
CVA16	**Lexington*	Bethlehem Steel Co., Quincy	do.	15 July 1941	26 Sept. 1942	17 Mar. 1943
CVS 17	**Bunker Hill*			15 Sept. 1941	7 Dec. 1942	24 May 1943
CVA18	**Wasp*			18 Mar. 1942	17 Aug. 1943	24 Nov. 1943
CVA19	*Hancock*			26 Jan. 1943	24 Jan. 1944	15 Apr. 1944
CVA20	**Bennington*	New York Navy Yard	Not reported	15 Dec. 1942	26 Feb. 1944	6 Aug. 1944
CVA21	*Boxer*	Newport News Co.	Builders	13 Sept. 1943	14 Dec. 1944	16 Apr. 1945
CVA31	**B. H. Richard*	New York Navy Yard	Not reported	1 Feb. 1943	29 Apr. 1944	26 Nov. 1944
CVS 32	*Leyte*	Newport News Co.	Builders	21 Feb. 1944	23 Aug. 1945	11 Apr. 1946
CVA33	*Kearsarge*	New York Navy Yard	Not reported	1 Mar. 1944	5 May 1945	2 Mar. 1946
CVS 36	*Antietam*	Philadelphia Navy Yard	do.	15 Mar. 1943	20 Aug. 1944	28 Jan. 1945
CVA37	*Princeton*	do	do.	14 Sept. 1943	8 July 1945	18 Nov. 1945
CVA38	*Shangri-La*	Norfolk Navy Yard	do.	15 Jan. 1943	24 Feb. 1944	15 Sept. 1944
CVA39	*Lake Champlain*	do.	do.	15 Mar. 1943	2 Nov. 1944	3 June 1945
CVA40	*Tarawa*	do.	do.	1 Mar. 1944	12 May 1945	8 Dec. 1945
CVA45	*Valley Forge*	Philadelphia Navy Yard	do.	7 Sept. 1944	18 Nov. 1945	3 Nov. 1946
CVA47	*Philippine Sea*	Bethlehem Co., Quincy	Builders	19 Aug. 1944	5 Sept. 1945	11 May 1944

* Short hull type. All above ships originally designated CV were redesignated CVA (Attack Aircraft Carrier) in Oct. 1952, but *Antietam*, *Bunker Hill*, *Franklin* and *Leyte* were again redesignated from CVA to CVS (ASW Support Aircraft Carriers) in July 1953. These are unlikely to get the modernisation which other vessels of the class such as the *Oriskany* and *Essex* have had, although *Antietam* has the canted deck.

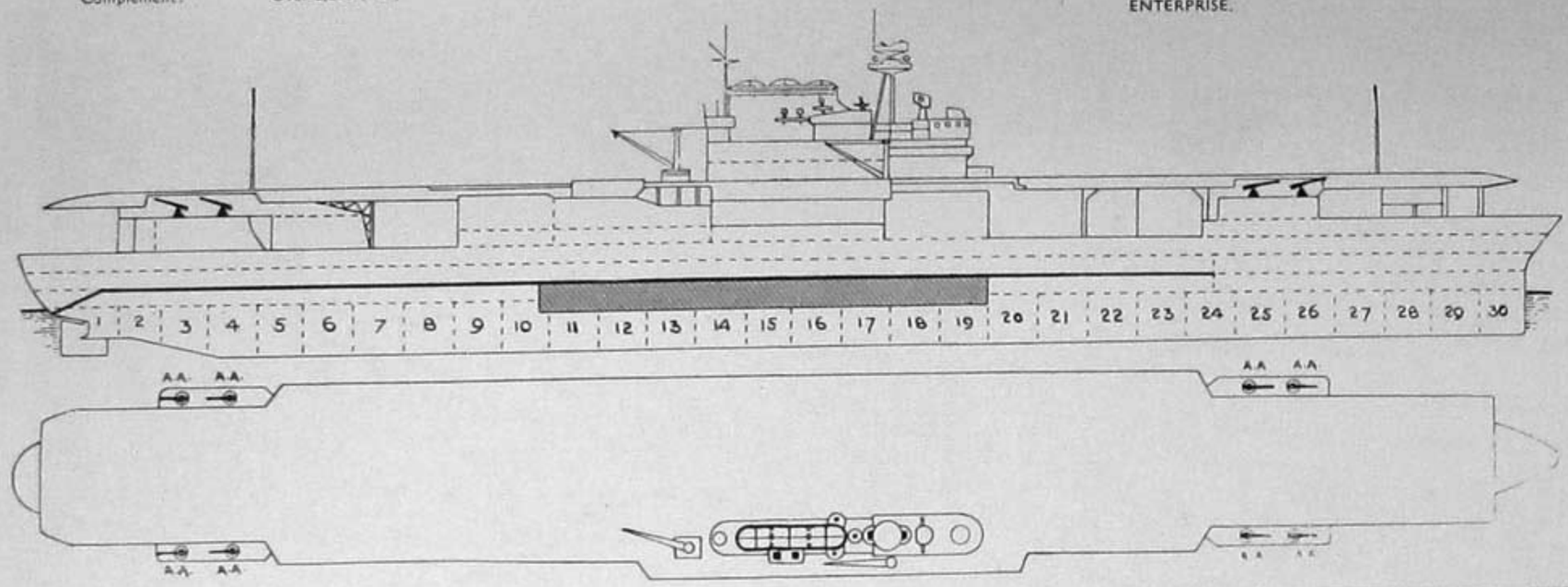
ASW Support Aircraft Carrier (CVS).

ENTERPRISE

Builders:	Newport News Shipbuilding & Drydock Co.
Laid down:	16 July 1934
Launched:	3 Oct. 1936
Completed:	End 1938
Displacement:	19,800 tons (25,500 tons *full load*)
Dimensions:	Length: 761 (*pp.*), 809¼ (*w.l.*), 827 (*o.a.*) feet. Beam: 83½ feet (*hull*). Width: 114 (*extreme*) feet. Draught: 21¼ (*mean*), 29 (*max.*) feet
Guns:	8—5 inch, 38 cal. (d.p.). Many 40 mm. and 20 mm. AA
Aircraft:	81–85 (space for over 100)
Armour:	4" side waterline amidships (see notes)
Machinery:	Geared turbines. S.H.P.: 120,000 = 34 kts. (32·5 kts. *designed*)
Boilers:	9 Babcock & Wilcox Express type
Complement:	Over 2,200 (war)

ENTERPRISE.

Added 1953, *U.S. Navy, Official.*



Note to Plan.—This shows starboard beam to illustrate details of funnel, etc.

General Notes.—No. CV56. Commissioned May 12, 1938, but owing to serious mechanical defects, involving replacement of the reduction gearing and over 1,200 boiler tubes, final completion of *Enterprise* was delayed until late in 1938. Said to have cost about $25,000,000. War losses: *Hornet, Yorktown.*

Aircraft Notes.—Aircraft can be catapulted from hangar deck as well as from flight deck, thus increasing the number that can be put into the air at short notice. There are 3 lifts from hangars to flight deck.

Armour Note.—There is a patch of side armour at water line over machinery and boiler spaces (unofficially reported to be 4") and a heavy protective deck.

Note.

The *Enterprise*, which is comparatively elderly and has seen strenuous service, is the sole survivor of the pre-war aircraft carriers. She was to have been demilitarised and given to the State of New York, being retained as a naval relic in consideration of her fine war record in 1942-45. This plan is being held in abeyance.

She has been inactivated, and is laid up in a state of preservation as a potential fighting ship, being berthed at New York as flagship of the Atlantic Reserve Fleet.

Reclassified as an Attack Aircraft Carrier, CVA, in Oct. 1952, but again reclassified as an ASW Support Aircraft Carrier, CVS, in July 1953, and in the event of war she would be employed on anti-submarine warfare and fleet support duties.

ENTERPRISE.

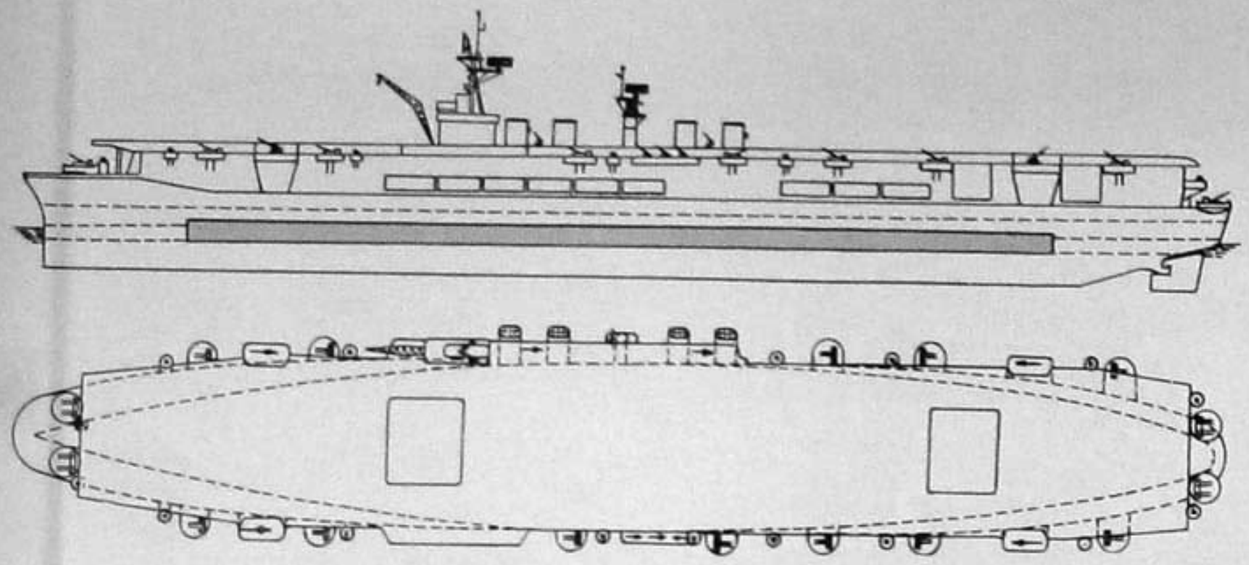
Added 1950, U.S. Navy, Official.

Small Aircraft Carriers (CVL).

2 "Saipan" Class.

SAIPAN **WRIGHT**

Displacement:	14,500 tons (18,760 tons *full load*)
Dimensions:	Length: 683¼ (o.a.) feet. Beam: 76¾ feet (*hull*). Width: 115 (extreme) feet. Draught: 25 (max.) feet
Guns:	40—40 mm. AA., 32—20 mm. AA.
Aircraft:	Over 50
Machinery:	Geared turbines. 4 shafts. S.H.P.: 120,000 = 33 kts.
Boilers:	8 Babcock & Wilcox
Fuel:	2,400 tons
Complement:	1,763 (war)

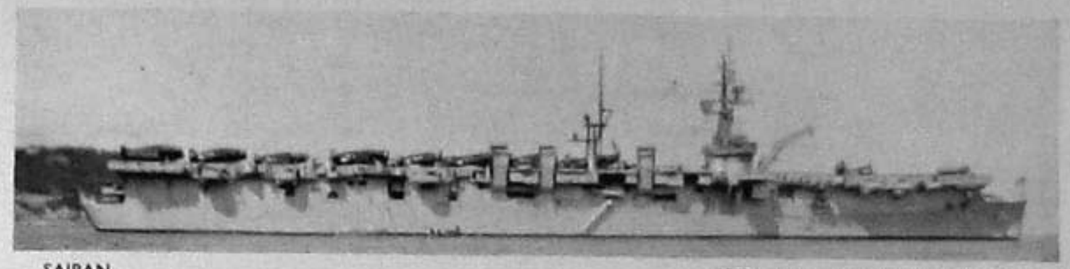


Note to Plan.—Both *Saipan* and *Wright* now have only three funnels.

General Notes.—Modifications of the "Baltimore" class heavy cruiser design laid down as CVLs. Hull below main (hangar) deck duplicates the Camden-built CA 130–133. *Saipan* is employed as an experimental ship for testing jet-propelled aircraft, as well as improvements in radar equipment. She recently operated successfully a squadron of McDonnell Phantom fighters. *Wright* has recently been used for training purposes. Both ships had four funnels but have had fore funnel removed (see photos of *Saipan* top right).

No.	*Name*	*Builders and Machinery*	*Laid down*	*Launched*	*Completed*
CVL 48	*Saipan*	New York S.B. Corpn.	10 July 1944	8 July 1945	14 July 1946
49	*Wright*		21 Aug. 1944	1 Sept. 1945	9 Feb. 1947

SAIPAN. 1953 *U.S. Navy, Official.*



SAIPAN. 1952, courtesy *Godfrey H. Walker Esq.*

WRIGHT. *Added* 1950, *U.S. Navy, Official.*

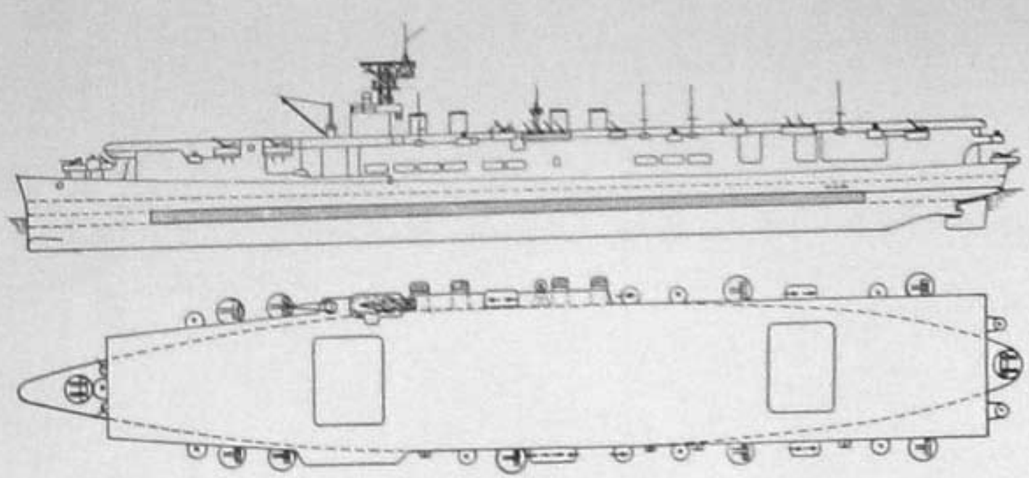
Small Aircraft Carriers (CVL).

Note.—The *Belleau Wood* of this class was transferred to France in September, 1953, having been loaned for five years.

5 "Cowpens" Class.

BATAAN (ex-*Buffalo*)
CABOT (ex-*Wilmington*)
COWPENS (ex-*Huntington*)
MONTEREY (ex-*Dayton*)
SAN JACINTO (ex-*Reprisal*, ex-*Newark*)

Displacement:	11,000 tons (15,100 tons *full load*)
Dimensions:	Length: 600 (w.l.), 623 (o.a.) feet. Beam: 71½ feet (*hull*). Width: 109 (extreme) feet. Draught: 20 (*mean*) 26 (*max.*) feet
Guns:	16—40 mm. AA., 40—20 mm. AA.
Aircraft:	40 (*Bataan* 26, see notes)
Machinery:	Geared turbines. 4 shafts. S.H.P.: 100,000 = 32 kts.
Boilers:	8 Babcock & Wilcox
Complement	1,183 (peace). 1,400 (war).



Notes to Plan—Since conversion *Cabot* has had only two funnels.

General Notes.—These vessels were all laid down as light cruisers of the "Cleveland" class, described on a later page, but were ordered to be completed as aircraft carriers. *Princeton* (CVL 23, ex-*Tallahassee*), lost in action. *Bataan* and *Cabot* are converted to ASW, i.e. modified to enable them to specialise in anti-submarine warfare, and are now classed as "Hunter-Killer Carriers." *Bataan* recommissioned May 13, 1950. She now has strengthened flight and hangar decks, large port side catapult, revised magazine arrangements, new electronic gear, and corrected stability to counter added top weight. Maximum 26 aircraft. Both ships have been practically modernised to a new type. *Langley* was transferred to the French Navy in 1951 under the Mutual Defense Assistance Program.

Gunnery Note.—Were originally designed to include 4—5 inch in armament.

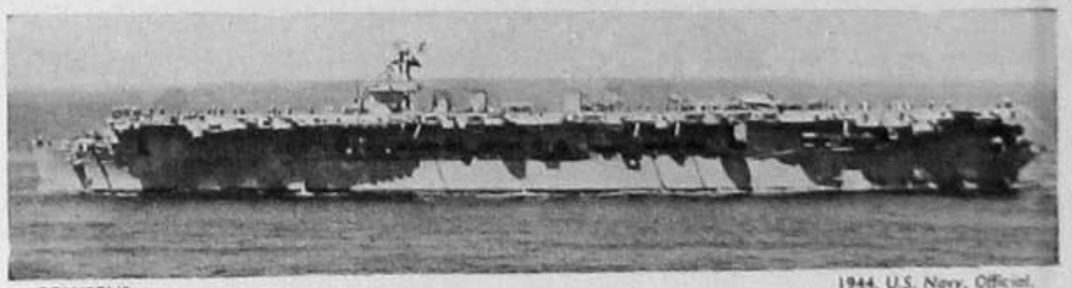
Experimental Notes.—*Independence*, CVL 22, utilized for Bikini atom-bomb experiments, 1946, was retained by the Navy, although a hulk, as part of the radiological laboratory at the San Francisco Naval Shipyard until 30 Jan. 1951 when she was towed to sea and sunk on an experimental weapon test.

No.	*Name*	*Builders and Machinery*	*Laid down*	*Launched*	*Completed*
CVL 25	*Cowpens*	New York S.B. Corpn.	17 Nov. 1941	17 Jan. 1943	28 May 1943
26	*Monterey*		29 Dec. 1941	28 Feb. 1943	17 June 1943
28	*Cabot*		16 Aug. 1942	4 Apr. 1943	24 July 1943
29	*Bataan*		31 Aug. 1942	1 Aug. 1943	17 Nov. 1943
30	*San Jacinto*		26 Oct. 1942	26 Sept. 1943	15 Dec. 1943

BATAAN. 1951, *U.S. Navy, Official.*

MONTEREY. *Added* 1951, *U.S. Navy, Official.*

CABOT. (now has only two funnels) *Added* 1950, *U.S. Navy, Official.*



COWPENS. 1944, *U.S. Navy, Official.*

Escort Aircraft Carriers (CVE).

Note.—A new type escort aircraft carrier specially designed as such with a displacement of 16,000 tons, a length of 600 feet, and a heightened hangar deck to permit the handling of the larger aircraft now employed for anti-submarine operations which was to take two years to build, was one of the ships cancelled to provide funds for the second "Forrestal" class attack aircraft carrier

19 "Commencement Bay" Class.

MINDORO. 1953, *Skyfotos.*

BADOENG STRAIT (ex-*San Alberto Bay*)
BAIROKO (ex-*Portage Bay*)
BLOCK ISLAND (ex-*Sunset Bay*)
CAPE GLOUCESTER (ex-*Willapa Bay*)
COMMENCEMENT BAY (ex-*St. Joseph's Bay*)
GILBERT ISLANDS (ex-*St. Andrew's Bay*)
KULA GULF (ex-*Vermilion Bay*)
MINDORO
PALAU
POINT CRUZ (ex-*Trocadero Bay*)
PUGET SOUND (ex-*Hobart Bay*)
RABAUL
RENDOVA (ex-*Mosser Bay*)
SAIDOR (ex-*Saltery Bay*)
SALERNO BAY (ex-*Winjah Bay*)
SIBONEY (ex-*Frosty Bay*)
SICILY (ex-*Sandy Bay*)
TINIAN
VELLA GULF (ex-*Totem Bay*)

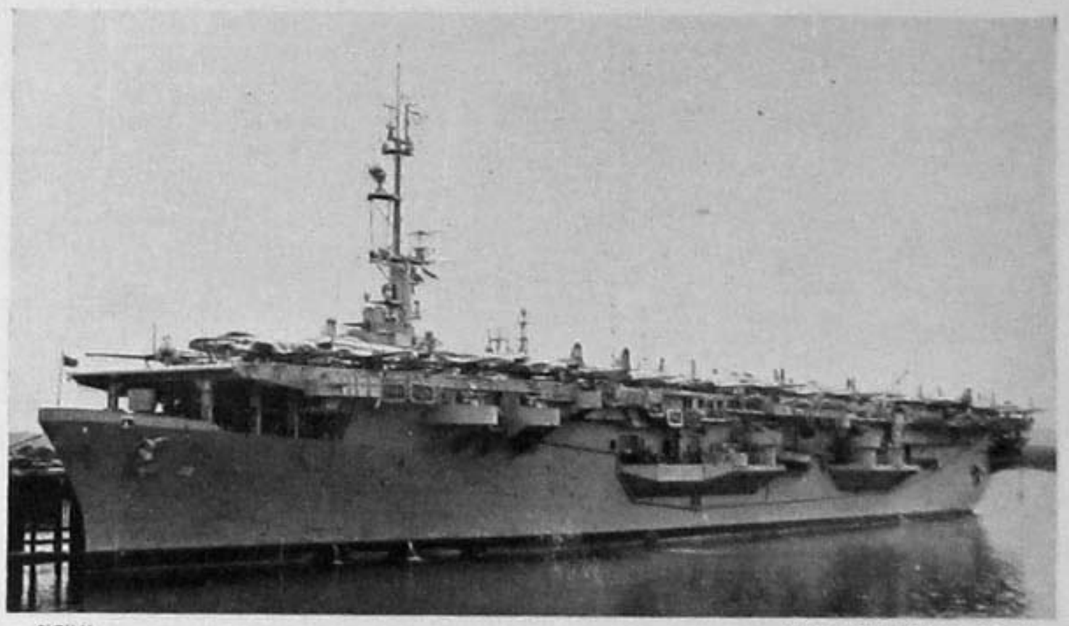
Displacement:	11,373 tons (24,275 tons *full load*)
Dimensions:	Length: 557 (o.a.) feet. Beam: 75 feet (*hull*). Width: 105 feet (extreme). Draught: 30½ (*max.*) feet
Guns:	1—5 inch, 38 cal., 24—40 mm. AA., 24—20 mm. AA., 4 rocket launchers
Aircraft:	34
Machinery:	Geared turbines. 2 shafts. S.H.P.: 16,000 = 19 kts.
Complement:	924 (peace). Over 1,000 (war)

General Notes.—All built by Todd Pacific Shipyards, Tacoma. Design modelled on that of "Suwanee" class, see later page. Sixteen more ships of this class, *Bastogne, Eniwetok, Lingayen, Okinawa*, and CVE 128-139, were cancelled in Aug. 1945.

Gunnery Notes.—After starboard 5 inch gun has been or will be removed. No. 1 Bofors 40 mm. mounting removed. 12 Oerlikon 20 mm. twin mounts now instead of former total of 30. Four rocket launchers now located amidships, two on each side.

No.	*Name*	*Laid down*	*Launched*	*Completed*
CVE 105	*Commencement Bay*	23 Sept. 1943	9 May 1944	27 Nov. 1944
106	*Block Island*	25 Oct. 1943	10 June 1944	30 Dec. 1944
107	*Gilbert Islands*	29 Nov. 1943	20 July 1944	5 Feb. 1945
108	*Kula Gulf*	16 Dec. 1943	15 Aug. 1944	12 May 1945
109	*Cape Gloucester*	10 Jan. 1944	12 Sept. 1944	5 Mar. 1945
110	*Salerno Bay*	7 Feb. 1944	26 Sept. 1944	19 May 1945
111	*Vella Gulf*	7 Mar. 1944	19 Oct. 1944	9 Apr. 1945
112	*Siboney*	1 Apr. 1944	9 Nov. 1944	14 May 1945
113	*Puget Sound*	12 May 1944	30 Nov. 1944	18 June 1945
114	*Rendova*	15 June 1944	28 Dec. 1944	22 Oct. 1945
115	*Bairoko*	25 July 1944	25 Jan. 1945	16 July 1945
116	*Badoeng Strait*	18 Aug. 1944	15 Feb. 1945	14 Nov. 1945
117	*Saidor*	29 Sept. 1944	17 Mar. 1945	4 Sept. 1945
118	*Sicily*	23 Oct. 1944	14 Apr. 1945	27 Feb. 1945
119	*Point Cruz*	4 Dec. 1944	18 May 1945	16 Oct. 1946
120	*Mindoro*	2 Jan. 1945	27 June 1945	22 Dec. 1945
121	*Rabaul*	29 Jan. 1945	14 July 1945	30 Aug. 1946
122	*Palau*	19 Feb. 1945	6 Aug. 1945	15 Jan. 1946
123	*Tinian*	20 Mar. 1945	5 Sept. 1945	30 July 1946

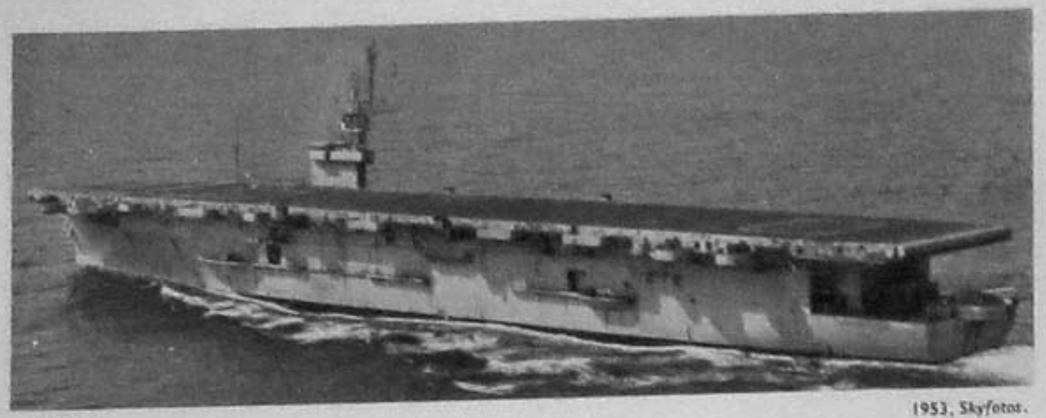
RENDOVA. 1953, *U.S. Navy, Official.*



SICILY. *Added 1951, U.S. Navy, Official.*

U.S.A.—Escort Aircraft Carriers (CVE)

34 " Anzio " Class.



TRIPOLI.

1953, Skyfotos.

CORREGIDOR.

Added 1950, U.S. Navy, Official.

ANZIO (ex-*Coral Sea*, ex-*Alikula Bay*)
BOUGAINVILLE (ex-*Didrickson Bay*)
CAPE ESPERANCE (ex-*Tananek Bay*)
CORREGIDOR (ex-*Atheling*, ex-*Anguilla Bay*)
FANSHAW BAY
GUADALCANAL (ex-*Astrolabe Bay*)
HOGGATT BAY
HOLLANDIA (ex-*Astrolabe Bay*)
KADASHAN BAY
KASAAN BAY
KWAJALEIN (ex-*Bucareli Bay*)
LUNGA POINT (ex-*Alazon Bay*)
MAKASSAR STRAIT (ex-*Ulitaka Bay*)
MANILA BAY (ex-*Bucareli Bay*)
MARCUS ISLAND (ex-*Kanalku Bay*)
MATANIKAU (ex-*Dolomi Bay*)
MISSION BAY (ex-*Atheling*)
MUNDA (ex-*Tonowek Bay*)
NATOMA BAY (ex-*Begum*)
NEHENTA BAY (ex-*Khedive*)
PETROF BAY
RUDYERD BAY
SAGINAW BAY
SARGENT BAY
SAVO ISLAND (ex-*Kaita Bay*)
SHAMROCK BAY
SHIPLEY BAY
SITKOH BAY
STEAMER BAY
TAKANIS BAY
THETIS BAY
TRIPOLI (ex-*Didrickson Bay*)
WHITE PLAINS (ex-*Elbour Bay*)
WINDHAM BAY

Displacement:	7,800 tons *standard* (10,400 tons *full load*)
Dimensions:	Length: 487 (*pp.*), 498 (*w.l.*), 512 (*o.a.*) feet. Beam: 65 feet (*hull*). Width: 108 feet (*extreme*) Draught: 19½ (*max.*) feet
Guns:	1—5 inch, 38 cal., 24—20 mm. AA. (Later ships have 8—40 mm. AA., 24—20 mm. AA.)
Aircraft:	30
Machinery:	Skinner Unaflow (reciprocating) engines. 2 shafts. I.H.P.: 11,200 = 19·5 kts.
Complement:	643 (peace). Over 800 (war)

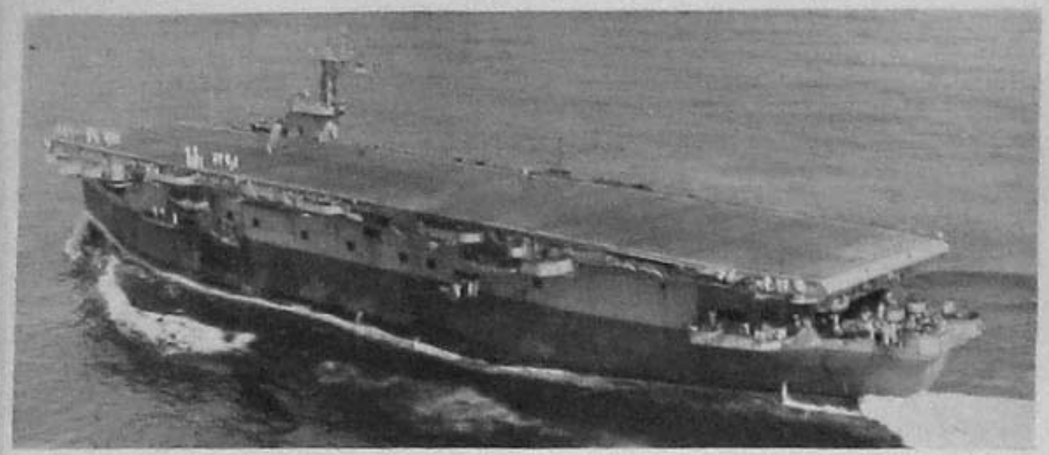
Notes.—Designed as aircraft carriers, all these ships were built by the Henry J. Kaiser Co., Inc., at Vancouver, Wash. or by the Oregon S.B. Corpn. at Portland, Oregon. They are of an improved design, differing from converted ships of " Bogue " class, which were found difficult to land upon in light airs. War losses: *Bismarck Sea* (CVE 95), *Gambier Bay* (73), *Liscome Bay* (56), *Ommaney Bay* (79), *St. Lo* (63). Sold or scrapped since: *Admiralty Islands*, *Attu*, *Casablanca*, *Kalinin Bay*, *Kitkun Bay*, *Makin Island*, *Rai*, *Salamaua*, *Solomons*, *Tulagi*, *Wake Island*.

	No.	Name	Laid down	Launched	Completed
CVE	57	*Anzio*	12 Dec. 1942	1 May 1943	27 Aug. 1943
	58*	*Corregidor*	17 Nov. 1942	12 May 1943	31 Aug. 1943
	59	*Mission Bay*	28 Dec. 1942	26 May 1943	13 Sept. 1943
	60	*Guadalcanal*	5 Jan. 1943	5 June 1943	25 Sept. 1943
	61	*Manila Bay*	15 Jan. 1943	10 July 1943	5 Oct. 1943
	62	*Natoma Bay*	17 Jan. 1943	20 July 1943	14 Oct. 1943
	64*	*Tripoli*	1 Feb. 1943	2 Sept. 1943	31 Oct. 1943
	66	*White Plains*	11 Feb. 1943	27 Sept. 1943	15 Nov. 1943
	69	*Kasaan Bay*	11 May 1943	24 Oct. 1943	4 Dec. 1943
	70	*Fanshaw Bay*	18 May 1943	1 Nov. 1943	9 Dec. 1943
	74	*Nehenta Bay*	20 July 1943	28 Nov. 1943	3 Jan. 1944
	75	*Hoggatt Bay*	17 Aug. 1943	4 Dec. 1943	11 Jan. 1944
	76	*Kadashan Bay*	2 Sept. 1943	11 Dec. 1943	18 Jan. 1944
	77	*Marcus Island*	15 Sept. 1943	16 Dec. 1943	26 Jan. 1944
	78	*Savo Island*	27 Sept. 1943	22 Dec. 1943	3 Feb. 1944
	80	*Petrof Bay*	15 Oct. 1943	5 Jan. 1944	18 Feb. 1944
	81	*Rudyerd Bay*	24 Oct. 1943	12 Jan. 1944	25 Feb. 1944
	82	*Saginaw Bay*	1 Nov. 1943	19 Jan. 1944	2 Mar. 1944
	83	*Sargent Bay*	8 Nov. 1943	31 Jan. 1944	9 Mar. 1944
	84	*Shamrock Bay*	15 Nov. 1943	4 Feb. 1944	15 Mar. 1944
	85	*Shipley Bay*	22 Nov. 1943	12 Feb. 1944	21 Mar. 1944
	86*	*Sitkoh Bay*	28 Nov. 1943	19 Feb. 1944	28 Mar. 1944
	87	*Steamer Bay*	4 Dec. 1943	26 Feb. 1944	4 Apr. 1944
	88*	*Cape Esperance*	11 Dec. 1943	3 Mar. 1944	9 Apr. 1944
	89	*Takanis Bay*	16 Dec. 1943	10 Mar. 1944	15 Apr. 1944
	90	*Thetis Bay*	22 Dec. 1943	16 Mar. 1944	21 Apr. 1944
	91	*Makassar Strait*	29 Dec. 1943	22 Mar. 1944	27 Apr. 1944
	92*	*Windham Bay*	5 Jan. 1944	29 Mar. 1944	3 May 1944
	94	*Lunga Point*	19 Jan. 1944	11 Apr. 1944	14 May 1944
	97	*Hollandia*	12 Feb. 1944	28 Apr. 1944	1 June 1944
	98	*Kwajalein*	19 Feb. 1944	4 May 1944	7 June 1944
	100	*Bougainville*	3 Mar. 1944	16 May 1944	18 June 1944
	101	*Matanikau*	10 Mar. 1944	22 May 1944	24 June 1944
	104	*Munda*	29 Mar. 1944	8 June 1944	8 July 1944

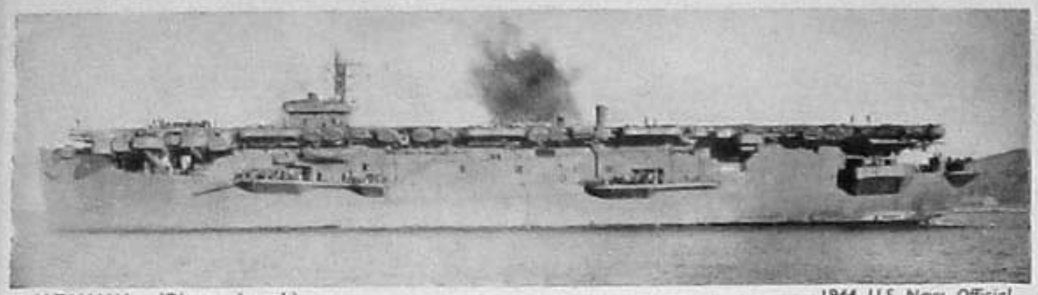
**Cape Esperance, Corregidor, Sitkoh Bay, Tripoli,* and *Windham Bay* are assigned to Military Sea Transportation Service, and serve as Aircraft Ferry Ships. Others out of commission, in reserve.

Escort Aircraft Carriers (CVE).

9 " Bogue " Class.



BOGUE. *Added 1951, U.S. Navy, Official.*



ALTAMAHA. (Observe funnel.) *1944, U.S. Navy, Official.*

ALTAMAHA
BARNES
BOGUE (*ex-Steel Advocate*)
BRETON
CARD
COPAHEE (*ex-Steel Architect*)
CORE
CROATAN
NASSAU

Displacement:	9,800 tons (15,700 tons *full load*)
Dimensions:	Length: 465 (*pp.*), 496 (*o.a.*) feet. Beam: 69½ feet (*hull*). Width: 112 feet (extreme). Draught: 26 (*max.*) feet
Guns:	1 or 2—5 inch, 51 cal., 16—40 mm. Bofors, 20—20 mm. Oerlikon
Aircraft:	30
Machinery:	Westinghouse geared turbines. S.H.P.: 8,500 = 18 kts.
Boilers:	Foster Wheeler type
Complement:	800

Notes.—All converted from mercantile hulls built by Seattle-Tacoma S.B. Corpn., and vary slightly in appearance. Flight deck is 450 feet long. All are named after sounds. These vessels are equipped with derricks for retrieving seaplanes. Out of commission, in reserve.

No.	*Name*	*Laid down*	*Launched*	*Completed*
CVE 9	*Bogue*	1 Oct. 1941	15 Jan. 1942	26 Sept. 1942
11	*Card*	27 Oct. 1941	21 Feb. 1942	8 Nov. 1942
12	*Copahee*	18 June 1941	21 Oct. 1941	2 Sept. 1942
13	*Core*	2 Jan. 1942	15 May 1942	10 Dec. 1942
16	*Nassau*	27 Nov. 1941	4 Apr. 1942	20 Aug. 1942
18	*Altamaha*	19 Dec. 1941	22 May 1942	15 Sept. 1942
20	*Barnes*	19 Jan. 1942	22 May 1942	20 Feb. 1943
23	*Breton*	25 Feb. 1942	27 June 1942	12 Apr. 1943
25	*Croatan*	15 Apr. 1942	3 Aug. 1942	28 Apr. 1943

Escort Aircraft Carrier (CVE).

1 " Prince William " Class.

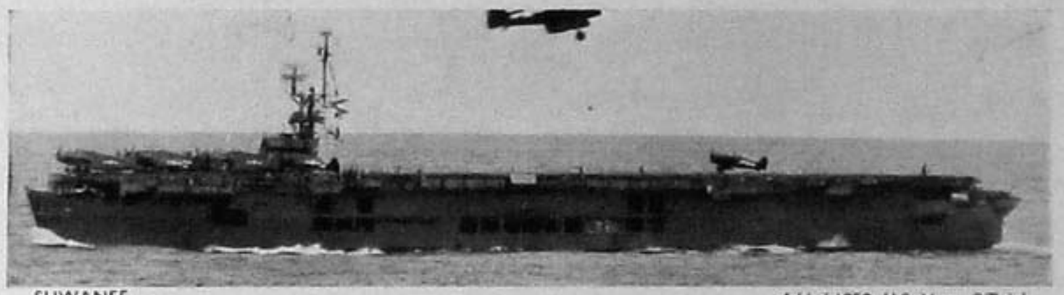
PRINCE WILLIAM. *Added 1950, U.S. Navy, Official.*

PRINCE WILLIAM

Builders:	Seattle-Tacoma Yard
Laid down:	18 May 1942
Launched:	23 Aug. 1942
Completed:	9 April 1943
Displacement:	8,333 tons (14,000 tons *full load*)
Dimensions:	Length: 465 (*pp.*), 496 (*o.a.*) feet. Beam: 69½ eet (*hull*). Width: 112 feet (extreme.) Draught: 26 (*mean*) feet
Guns:	2—5 inch, 38 cal.
Aircraft:	30
Machinery:	Geared turbines. 1 shaft. S.H.P.: 8,500 = 18 kts.
Boilers:	Foster-Wheeler
Oil fuel:	3,290 tons
Complement:	646 (peace). Over 800 (war)

Notes.—CVE 31. Commissioned April 9, 1943. Similar to " Bogue " class. Converted from mercantile hull by Seattle-Tacoma S.B Corporation. Same type as " Ruler " class, which served in Royal Navy during the war. Can carry up to 90 aircraft when used as a ferry carrier. Out of commission in reserve.

3 " Suwanee " Class.



SUWANEE. *Added 1950, U.S. Navy, Official.*

CHENANGO (*ex-Esso New Orleans*) **SANTEE** (*ex-Seakay*) **SUWANEE** (*ex-Markay*)

Displacement:	11,400 tons (24,275 tons *full load*)
Dimensions:	Length: 553 (*o.a.*) feet. Beam: 75 feet (*hull*). Width: 114 feet (extreme). Draught: 30½ (*max.*) feet
Guns:	1 or 2—5 inch, 51 cal., 8—40 mm. AA., 15—20 mm. AA.
Aircraft:	34
Machinery:	Geared turbines. 2 shafts. S.H.P.: 13,500 = 18 kts.
Complement:	790 (peace). Over 1,000 (war)

Notes.—Ex-fleet oilers converted into Aircraft Carriers with two lifts and a catapult. Propelling machinery is aft. Out of commission, in reserve. *Sangamon* of this class was reconverted to a tanker after the war and sold.

No.	*Name*	*Ex-No.*	*Builders*	*Launched*	*Acquired*	*Completed*
CVE 27	*Suwanee*	AO 33	Federal Shipbuilding Co Kearny	4 Mar. 1939	26 June 1941	24 Sept. 1942
CVE 28	*Chenango*	AO 31	Sun, Chester	4 Jan. 1939	31 May 1941	19 Sept. 1942
CVE 29	*Santee*	AO 29	Sun, Chester	4 Mar. 1939	30 Oct. 1940	24 Aug. 1942

Battleships (BB).

"Iowa" Class.

4 + 1 SHIPS.

IOWA — **NEW JERSEY**

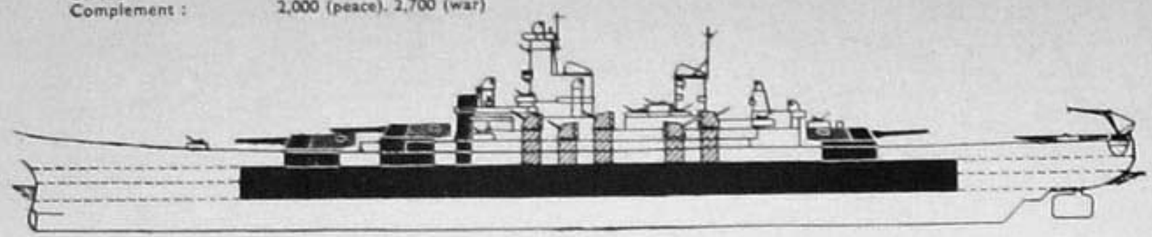
MISSOURI — **WISCONSIN**

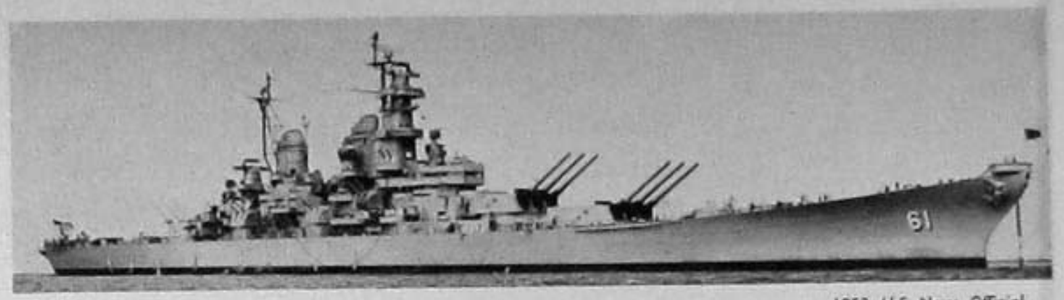
KENTUCKY (Suspended)

MISSOURI.

1951, *U.S. Navy, Official.*

Displacement:	45,000 tons *standard* (57,450 tons *full load* first two, 57,216 tons second pair)
Dimensions:	Length: 861¼ (pp.), 887¼ (*o.a.*), *New Jersey* 888 (*o.a.*) feet. Beam: 108 feet. Draught: 38 feet (max.)
Guns:	9—16 inch, 50 cal., 20—5 inch, 38 cal., 80—40 mm. AA. (will carry 30—3 inch, 50 cal. guns in place of 40 mm. mounts)
Aircraft:	2 helicopters
Armour:	19"–16" side, otherwise more extensive than in "South Dakota" class
Machinery:	Geared turbines. 4 shafts. S.H.P.: 212,000 = 33 kts.
Boilers:	Babcock & Wilcox
Oil fuel:	8,800 tons
Complement:	2,000 (peace). 2,700 (war)





IOWA.

1953, *U.S. Navy, Official.*

NEW JERSEY.

1951, *U.S. Navy, Official.*

Note to Plan.—Catapults now removed. (Helicopters replace catapult observation aircraft which were formerly standard).

General Notes.—All ordered under 1940 Programme. Inclusive cost officially stated to exceed $100,000,000 each. *Iowa* and *New Jersey* were each built in 2¼ years, same period as occupied by the *Alabama*, a smaller ship. Construction of *Kentucky*, after being suspended for a time, was resumed in Dec. 1944, only to be arrested again in Aug., 1946, and resumed once more on Aug. 17, 1948; while the *Illinois* (65), authorised in 1940 and ordered from Philadelphia Navy Yard in Dec., 1942, was cancelled when 22% complete, on Aug. 11, 1945.

Gunnery Notes.—16 inch guns have a range of 23 miles. Quick firing 3 inch guns are to replace some of the former 40 mm. AA. batteries.

Engineering Notes.—High pressure large boilers. Speeds of 35 kts. have been reached in service.

Appearance Notes.—*New Jersey* has a tripod mainmast stepped against her after-funnel to accommodate flag-hoists. *Iowa* and *Missouri* have been similarly equipped.

Special Note.—*Kentucky's* armament was to have been modified to include a number of guided missiles, but work was stopped and although construction was intermittently resumed, this was merely to free the dry dock in which she was built. As a battleship she was 70% complete with machinery installed. She was floated out from her building dock on Jan. 20, 1950, to be laid up in Norfolk, and is being retained in her present condition for eventual completion if a future emergency arises. She cannot be scrapped without the approval of Congress or the House Armed Services Committee. No work is being done on her.

No.	*Name*	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*
BB 61	*Iowa*	New York Navy Yard	General Electric Co.	27 June 1940	27 Aug. 1942	22 Feb. 1943
62	*New Jersey*	Philadelphia Navy Yard	Westinghouse Co.	16 Sept. 1940	7 Dec. 1942	23 May 1943
63	*Missouri*	New York Navy Yard	General Electric Co.	6 Jan. 1941	29 Jan. 1944	11 June 1944
64	*Wisconsin*	Philadelphia Navy Yard	Westinghouse Co.	25 Jan. 1941	7 Dec. 1943	16 April 1944
66	*Kentucky*	Norfolk Navy Yard	Westinghouse Co.	6 Dec. 1942	20 Jan. 1950	

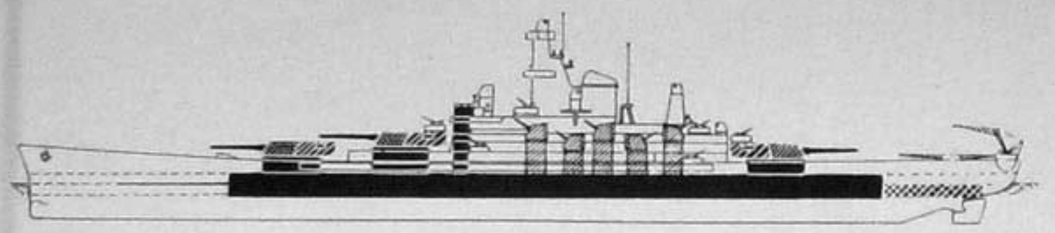
Battleships (BB)—*continued.*

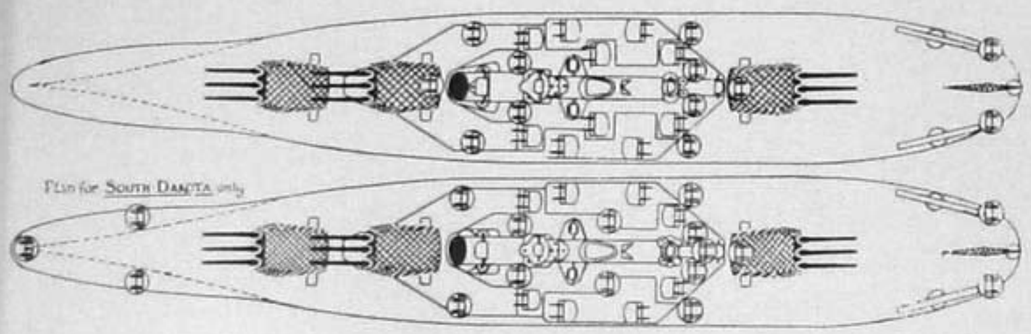
SOUTH DAKOTA

3 "Indiana" Class.

ALABAMA **INDIANA** **MASSACHUSETTS**

Displacement:	35,000 tons *standard* (44,374 tons *full load* except *Massachusetts*, 45,216 tons *full load*)
Dimensions:	Length: 680 feet (*o.a*). Beam: 108¼ feet. Draught: 36 feet (*max.*)
Guns:	9—16 inch, 45 cal., 20—5 inch, 38 cal., d.p. (*South Dakota* has only 16), 56—40 mm. AA., (*South Dakota*, 68), 40—20 mm. AA.
Aircraft:	3
Catapults:	2
Armour:	18"–16" side, 18" turrets, 6" upper deck, 4" main deck
Machinery:	Geared turbines. 4 shafts. S.H.P.: 130,000 = 28 kts.
Boilers:	Babcock & Wilcox in *South Dakota* and *Massachusetts*; Foster Wheeler in *Indiana* and *Alabama* (working pressure reported as 600 lb. per sq. inch with 400 degrees of superheat)
Complement:	1,808 peace). 2,500 (war)





General Notes.—Ordered under 1938 Program. Cost over $77,000,000 each. These ships are a modification of "North Carolina" class design with increased freeboard and reduced length, embodying several improvements. *Alabama* was built in 2¾ years from date of laying keel. *South Dakota* played a prominent part in naval victory over Japanese squadron in Battle of Guadalcanal, Nov. 13–15, 1942. All out of commission, in reserve.

Gunnery Notes.—The outstanding feature of these ships was the large number of 40 mm. Bofors and 20 mm. Oerlikon guns included in the AA. armament. The 5 inch guns are mounted at a higher level than in *North Carolina* and *Washington*.

Armour Notes.—Understood that these ships have enhanced protection as compared with "North Carolina" class.

No.	*Name*	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*
BB 57	*South Dakota*	New York S.B. Corpn.	Gen. Electric Co.	5 July 1939	7 June 1941	16 Aug. 1942
58	*Indiana*	Newport News Co.	Westinghouse Co.	20 Nov. 1939	21 Nov. 1941	Oct. 1942
59	*Massachusetts*	Bethlehem Steel Co. (Quincy)	Gen. Electric Co.	20 July 1939	23 Sept. 1941	Sept. 1942
60	*Alabama*	Norfolk Navy Yard	Westinghouse Co.	1 Feb. 1940	16 Feb. 1942	Nov. 1942

SOUTH DAKOTA. *Added 1949, U.S. Navy, Official.*

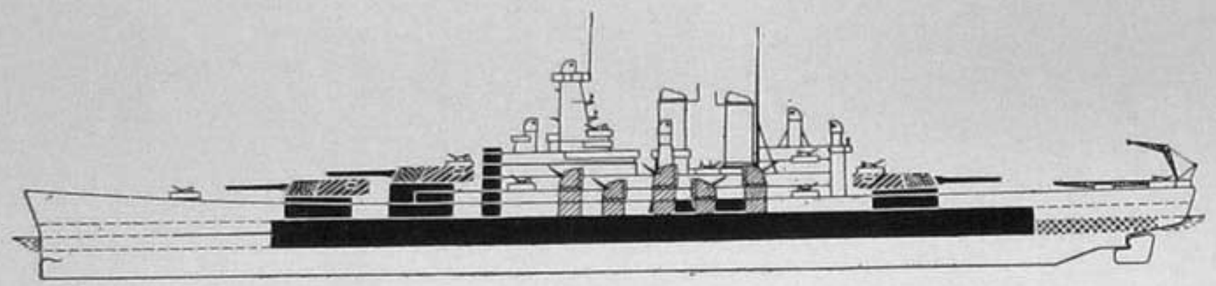
MASSACHUSETTS. *Added 1949, U.S. Navy, Official.*

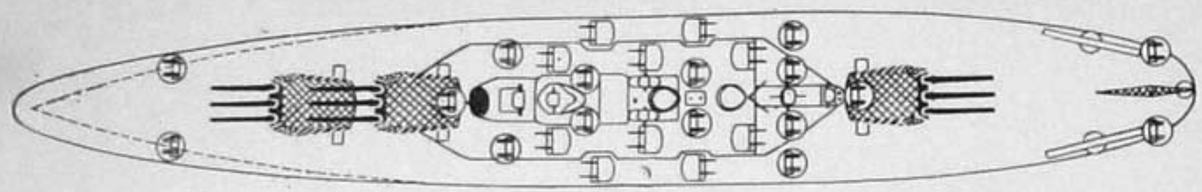
Battleships (BB)—*continued.*

2 "North Carolina" Class.

NORTH CAROLINA **WASHINGTON**

Displacement:	35,000 tons *standard* (46,770 tons *full load*, *North Carolina*, 45,370 tons *full load*, *Washington*)
Dimensions:	Length: 704 (*w.l.*), 729 (*o.a.*) feet. Beam: 108 feet. Draught: 26¼ (*mean*), 35 (*max.*) feet
Guns:	9—16 inch, 45 cal., 20—5 inch, 38 cal., d.p. 60—40 mm. AA., 56—20 mm. AA.
Aircraft:	3
Catapults:	2
Armour (unofficial):	16" side amidships, 18" turrets, 6" upper deck, 4" main deck. Triple hull below *w.l.* and internal bulges
Machinery:	Geared turbines. 4 shafts. S.H.P.: 121,000 = 28 kts.
Boilers:	Babcock & Wilcox of a new pattern (working pressure reported to be 600 lb. per sq. inch, with 400 degrees of superheat)
Complement:	2,500 (war)





General Notes.—Ordered under 1936 Programme. Cost £76,885,750. Delays in laying down these ships were due to changes in design, late delivery of materials and necessity for extending and strengthening building slips. Ships are fully 35 per cent. welded. Engine room is arranged on a novel plan to save weight. Both ships at Naval Shipyard Annex at Bayonne in inactivated Atlantic Reserve Fleet.

Gunnery Notes.—16-inch are a new model, reported to weigh 125 tons. Each turret weighs 650 tons complete.

Engineering Notes.—Weight of machinery has been reduced in comparison with earlier battleships. Steam pressures and temperatures are reported to be greater than in any previous battleship.

No.	*Name*	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*
BB 55	*North Carolina*	New York Navy Yard	General Electric Co.	27 Oct. 1937	13 June 1940	Aug. 1941
56	*Washington*	Philadelphia Navy Yard	General Electric Co.	14 June 1938	1 June 1940	Mar. 1942

NORTH CAROLINA. *Added 1950, U.S. Navy, Official.*

WASHINGTON. 1945, courtesy Commander P. A. Morgan, R.N.R.

139R

Battleships (BB)—*continued.*

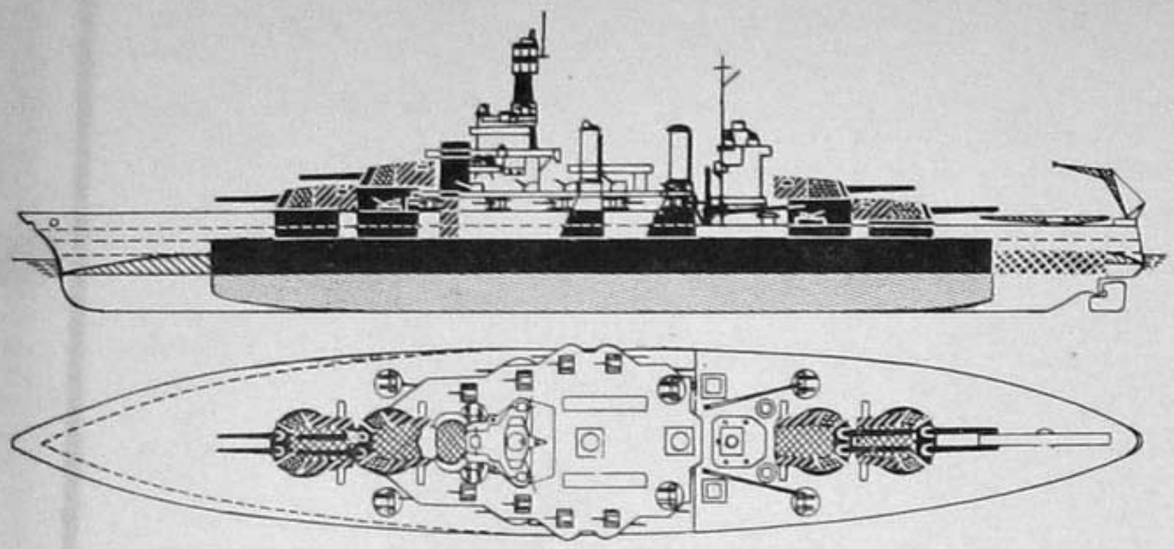
WEST VIRGINIA

2 "Colorado" Class.

COLORADO

MARYLAND

Displacement:	*Colorado*, 32,500 tons *standard* (40,396 tons *full load*), *Maryland*, 31,500 tons (39,100 tons *full load*); *West Virginia*, 31,800 tons (40,354 tons *full load*)
Dimensions:	Length: 600 (*w.l.*), 624 (*o.a.*) feet. Beam: 108 feet (*West Virginia*, 114 feet). Draught: 30¼, 29¾, 30 feet (*mean*), respectively: 34 feet (*max.*) (*West Virginia* 35¼ feet
Guns:	8—16 inch, 45 cal. Mk. 1, 8—5 inch, 38 cal., 8—5 inch, 51 cal. (*West Virginia*, 16—5 inch, 38 cal.), 32—40 mm. (*West Virginia* 40) and 50—20 mm. AA
Aircraft:	3
Catapults:	1 on quarter deck
Armour:	16"–14" belt, 8" belt (aft), 3" deck (ends), 16"–9" funnel bases 18"–9" turrets, 16" conning tower and tube, 3¼" upper and 2¼" lower armour decks
Machinery:	*Colorado*, Westinghouse turbines and electric drive; *Mary and* and *West Virginia*, G.E. turbines and electric drive. 4 shafts. Designed S.H.P.: 31,100 (*West Virginia* 30,000) = 20·5 kts. (see Engineering Notes)
Boilers:	8 Babcock & Wilcox
Oil fuel:	2,500 tons *normal*, 4,000 tons *max.* (unofficial figures)
Complement:	2,100 (*West Virginia* as fleet flagship, 2,350)



Note to Plan.—This represents *Colorado* and *Maryland* only. *West Virginia* is reconstructed as in photo.

General Notes.—Authorised 1916. *West Virginia* and *Maryland* both fitted as Flagships. *West Virginia* was reduced to a wreck by Japanese attack on Pearl Harbour on Dec. 7, 1941, being hit by four torpedoes and two heavy bombs. She settled down on an even keel, and has since been reconstructed to a silhouette identical in nearly all respects with *California*, including anti-torpedo bulge. *Maryland* received a considerable amount of bomb damage on same occasion. At that date, *Colorado* is understood to have been under refit. All out of commission, in Pacific Reserve Fleet at Bremerton, Wash.

Gunnery Notes.—Maximum elevation of 16-inch 30 degrees; maximum range at this elevation unofficially stated to be 33,300 yards. Turrets electrically manoeuvred and with electric hoists. Excepting increase of calibre to 16-inch, otherwise as notes for "Tennessee" class.

Anti-Torpedo Protection.—Ferrati type triple hull and minute internal subdivision by longitudinal and transverse unpierced bulkheads,

Engineering Notes.—On trials *Colorado* developed 37,480 S.H.P. = 20·67 kts., and *Maryland* 36,167 S.H.P. = 21·07 kts. *West Virginia* attained a speed of 21·1 kts. "Electric Drive" is identical with that for the "Tennessee" class, but in these ships electric installation has been extended. Part of steam generated in boilers is diverted for running six auxiliary turbo-generators, supplying current to anchor gear, workshop lathes, refrigerating plant, bakeries, etc. Guns are also electrically manoeuvred, ammunition hoists are electric. In fact every possible item of equipment is run by electric power. Estimated weight of machinery, 2,002 tons. Heating surfaces as *Tennessee* on a later page.

MARYLAND. *Added 1949, U.S. Navy, Official.*

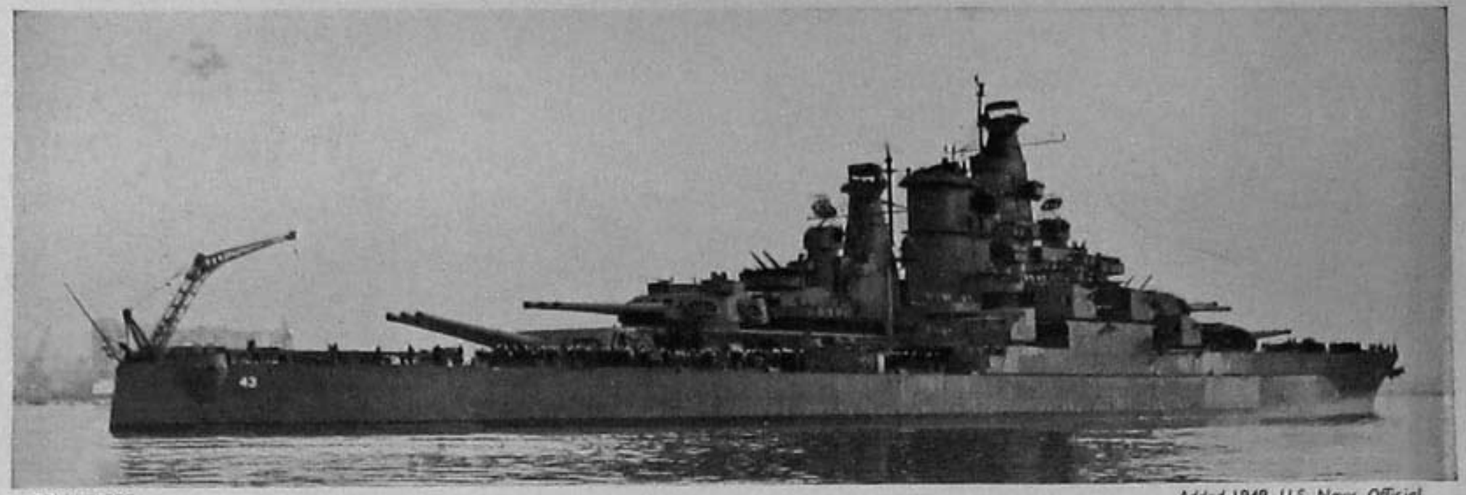
WEST VIRGINIA. *Added 1949, U.S. Navy, Official.*

No.	*Name*	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*
BB 45	*Colorado*	New York S.B. Corpn.	Westinghouse Co.	May 1919	22 Mar. 1921	Aug. 1923
46	*Maryland*	Newport News	General Electric Co	Apr. 1917	20 Mar. 1920	July 1921
48	*West Virginia*	Newport News	General Electric Co	Apr. 1920	19 Nov. 1921	Dec. 1923

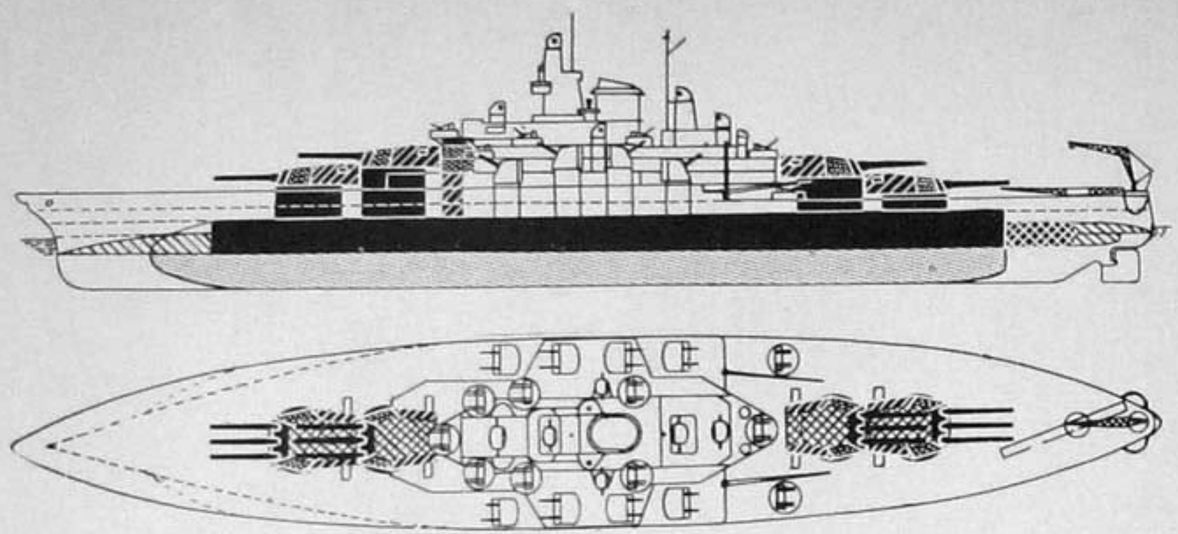
Battleships (BB)—*continued.*

2 "Tennessee" Class.

	CALIFORNIA	TENNESSEE
Displacement:	32,600 and 32,300 tons *standard* respectively (40,354 tons *full load*)	
Dimensions:	Length: 600 (*w.l.*), 624 (*o.a.*) feet. Beam: 114 feet (*extreme*). Draught: 30¼, 30¼ (*mean*) feet, respectively; 35¼, 35 (*max.*) feet, respectively	
Guns:	12—14 inch, 50 cal., Mk. IV, 16—5 inch, 38 cal., 40—40 mm, and 42 to 50—20 mm. AA.	
Aircraft:	4 and 3, respectively	
Catapults:	1 on quarter deck	
Armour:	14" belt, 8" belt (aft), 3" deck (ends), 15"–9" funnel bases, 18"–9" turrets, 16" conning tower and tube, 3½" upper and 2½" lower armour decks	
Machinery:	*California*, G.E. turbines and electric drive; *Tennessee*, Westinghouse turbines and electric drive. 4 shafts in both ships. Designed H.P.: 30,000 = 20·5 kts.	
Boilers:	8 Bureau Express type in *California*, 8 Babcock & Wilcox in *Tennessee*	
Fuel (oil only):	2,200 tons *normal*, 4,906 and 4,893 tons *max.*, respectively.	
Complement:	1,808 (peace). 2,200 (war)	



TENNESSEE. *Added 1949, U.S. Navy, Official.*



CALIFORNIA. *Added 1949, U.S. Navy, Official.*

General Notes.—Authorised 1915. The above design is practically identical with *New Mexico* class as originally completed. *California* fitted as Flagship. She was heavily damaged at Pearl Harbour on Dec. 7, 1941. Having been torpedoed and set on fire, she had to be flooded to save the magazines exploding, and settled down with a pronounced list. She has since been completely reconstructed, with the addition of bulges. *Tennessee* received extensive damage of a less serious nature from bombs on same occasion and has undergone similar transformation. Both out of commission, in Reserve Fleets.

Gunnery Notes.—The 14-inch are mounted in separate sleeves; elevation, up to 30 degrees. Maximum range stated to be over 35,000 yards. *Tennessee* had new main fire-control system installed and splinter screens added during 1940–41.

Armour Notes.—Internal subdivision by unpierced bulkheads developed to the utmost degree below waterline.

Engineering Notes.—Estimated weight of machinery: *California*, 1,805 tons; *Tennessee*, 2,045 tons. Heating surface: 50,984 sq. ft. for Bureau Express boilers in *California*; 41,768 sq. ft. + 4,168 sq. ft. (superheated) for Babcock boilers in *Tennessee*. Each boiler is in a separate w.t. compartment. Boiler rooms are abeam of engine rooms (4 to port, 4 to starboard), and boilers are under central control. Turbines are in tandem on centre line. On trials, *California* attained a speed of 21·46 kts. *Tennessee*, which developed 30,908 S.H.P. = 21·01 kts, was brought to rest from full speed within 3 minutes; tactical diameter: 700 yards (full helm, both screws turning forward).

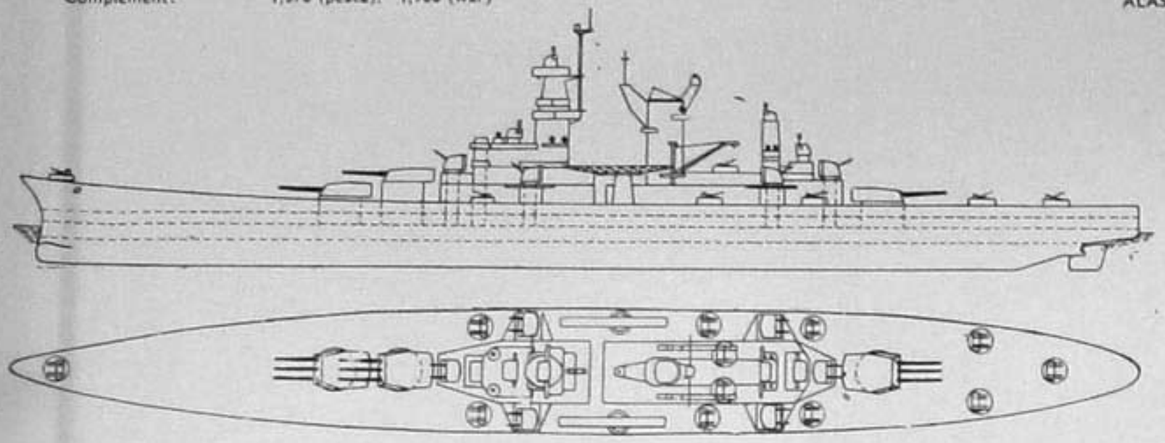
No.	*Name*	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*	*Rebuilt*
BB 44	*California*	Mare Island Yard	Gen. Electric Co.	Oct. 1916	20 Nov. 1919	15 Sept. 1921	1942
43	*Tennessee*	New York Yard	Westinghouse Co.	May 1917	30 Apr. 1919	16 Sept. 1920	1942

Large Cruisers (CB).

Large Tactical Command Ship (CBC).

2 + 1 "Alaska" Class.

ALASKA	GUAM	HAWAII
Displacement:	27,500 tons (34,250 tons *full load*)	
Dimensions:	Length: 808½ (o.a.) feet. Beam: 91 feet. Draught: 31½ (*max.*) feet	
Guns:	(*Alaska* and *Guam*) 9—12 inch, 50 cal., 12—5 inch, 38 cal., 56—40 mm. AA., 34—20 mm. AA.	
Aircraft:	4	
Catapults:	2	
Armour:	9"–5" side, 12½" turret faces, 5" turret sides and crowns, 4½"–3½" decks	
Machinery:	General Electric geared turbines. 4 shafts. S.H.P.: 150,000 = 33 kts. (30 kts. designed)	
Boilers:	8 Babcock & Wilcox	
Complement:	1,370 (peace). 1,900 (war)	



Note to Plan.—Stern is actually of more rectangular form than shown here.

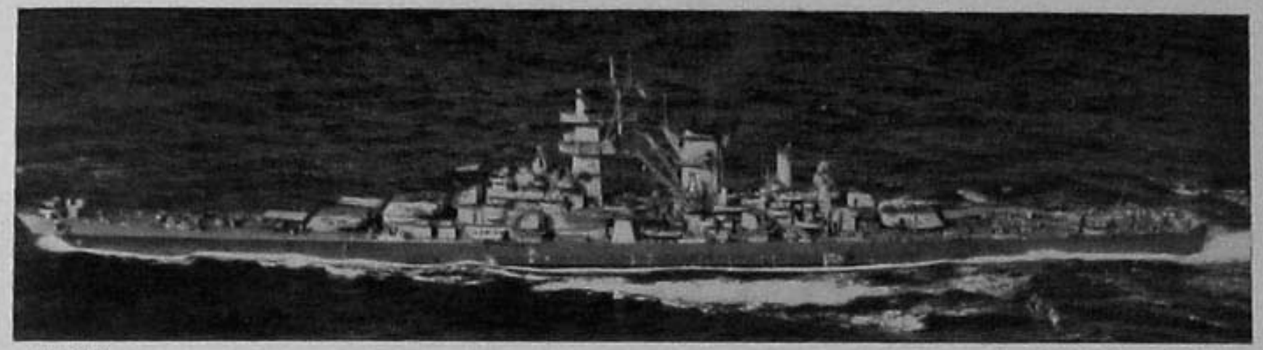
General Notes.—All ordered in Sept., 1940, and officially described as "Large Cruisers." In fact, they were the first vessels with the characteristics of battle cruisers to be ordered by any Navy since the Washington Conference met in 1921; and although they have cruiser lines their length and displacement exceed those of many battleships. *Guam* proved her worth in nearly six months of Pacific operations. Made her debut on March 18, 1945, in the historic carrier attack against the Ryukyas and steamed for 61 consecutive days. *Alaska* and *Guam* are at Naval Shipyard Annex at Bayonne as part of the inactivated Reserve Fleet. Inclusive cost is officially estimated at $74,066,000 per ship. Three more ships of this type, *Philippines*, *Puerto Rico* and *Samoa*, authorised in 1940, were cancelled on June 24, 1943. Construction of *Hawaii* was held up awaiting final decision concerning armament, which it had been proposed to modify by fitting rocket projectors, and ship was laid up in naval shipyard 82 per cent. complete. After work was suspended, it is officially stated, there was discussion that she might be completed as a guided missile ship.

Gunnery Notes.—The 12-inch guns are of a new and powerful model. Anti-aircraft batteries very efficient.

Armour Notes.—Protection generally is on the lines of an armoured cruiser rather than of a battleship. Officially stated that their compartmentation makes them some of the most combat-worthy ships in the world.

No.	*Name*	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*
CB 1	*Alaska*	New York Shipbuilding Corpn.	Gen. Electric Co.	16 Dec. 1941	15 Aug. 1943	17 June 1944
CB 2	*Guam*			2 Feb. 1942	21 Nov. 1943	17 Sept. 1944
CBC 1	*Hawaii*			20 Dec. 1943	11 Mar. 1945	

Note.—The classification of *Hawaii* was in 1952 changed from CB 3 to CEC 1 and she is being completed as a Large Tactical Command ship. The conversion includes the installation of a great deal of radar, communications, and headquarters equipment to fit her for being an operations command ship and she will act as such for a carrier task force or similar large fleet or group of ships. The largest guns mounted will be of 5 inch calibre.



ALASKA. *Added 1951, U.S. Navy Official*

GUAM. *Added 1949, U.S. Navy, Official.*

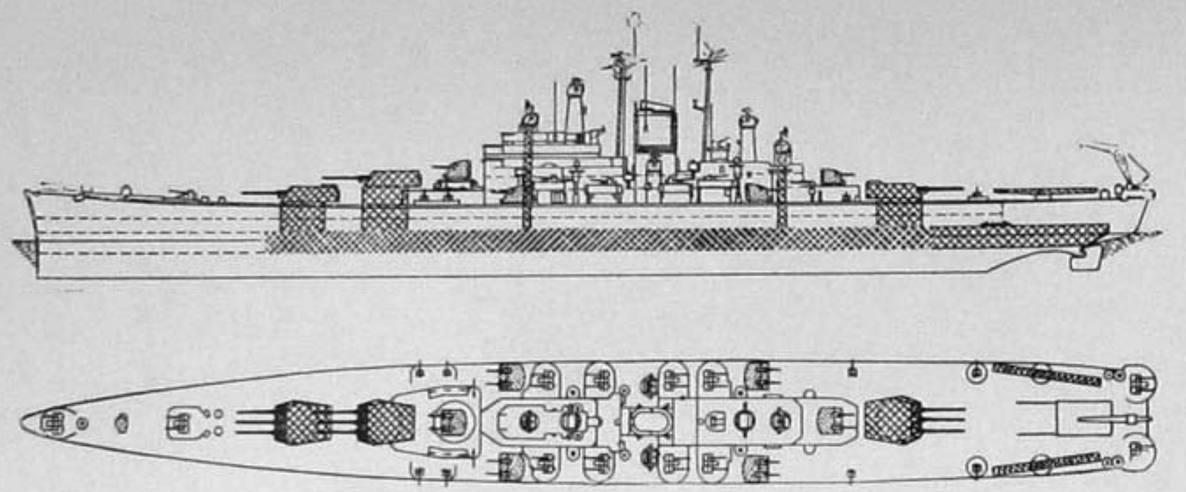
ALASKA. *Added 1949, U.S. Navy, Official.*

Heavy Cruisers (CA).

3 "Des Moines" Class.

DES MOINES **NEWPORT NEWS** **SALEM**

Displacement:	17,000 tons (21,500 tons *full load*)
Dimensions:	Length: 716½ (o.a.) feet. Beam: 75½ feet. Draught: 26 (*max.*) fee
Guns:	9—8 inch, 55 cal., triple turrets, 12—5 inch, 38 cal., d.p., twin mounts 24—3 nch AA., 50 cal, 20—20 mm. AA.
Aircraft:	1 helicopter.
Armour:	8"–6" side, 3" + 2" decks
Machinery:	Geared turbines. 4 shafts. S.H.P.: 120,000 = 33 kts.
Boilers:	Babcock & Wilcox
Fuel:	2,600 tons
Complement:	1,860 (war)



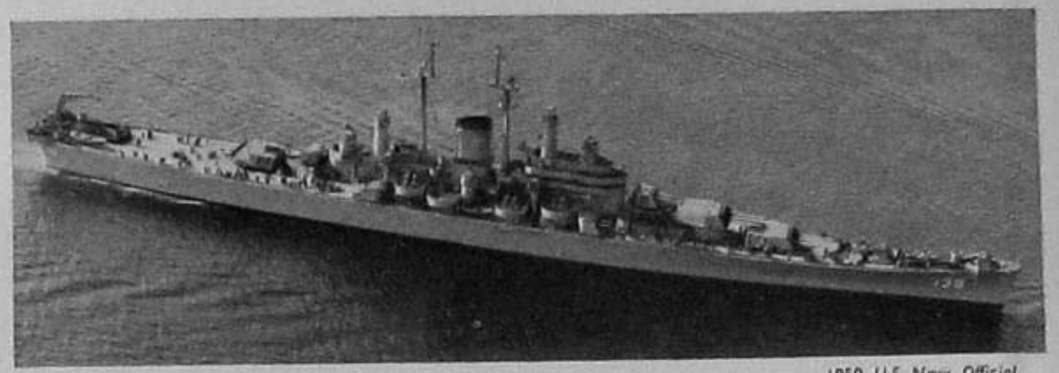
Note to Plan.—Catapults now discarded, seaplane units having been disbanded.

General Notes.—The heaviest cruisers in the world, and the first vessels to mount completely automatic rapid-fire 8-inch guns, these ships represent an expansion of *Oregon City* design. Much of extra tonnage is absorbed by rapid loading gear and extra magazine space, though part of this is made up by saving in complement. *Newport News* is completely air-conditioned and similar equipment will be installed in the *Salem*. The *Des Moines* is not air-conditioned. Nine others of class cancelled, CA 140 (*Dallas*), CA 141–143 and CA 149–153.

Gunnery Notes.—All guns are of fully automatic type. Cartridge cases have replaced wrapped charges and shells have automatic fuse setting. 8-inch guns are said to be capable of firing four times more rapidly than any previous model. The 24—3 inch AA. guns are in 12 twin mountings : 2 twin mountings abreast funnel are not installed in peacetime.

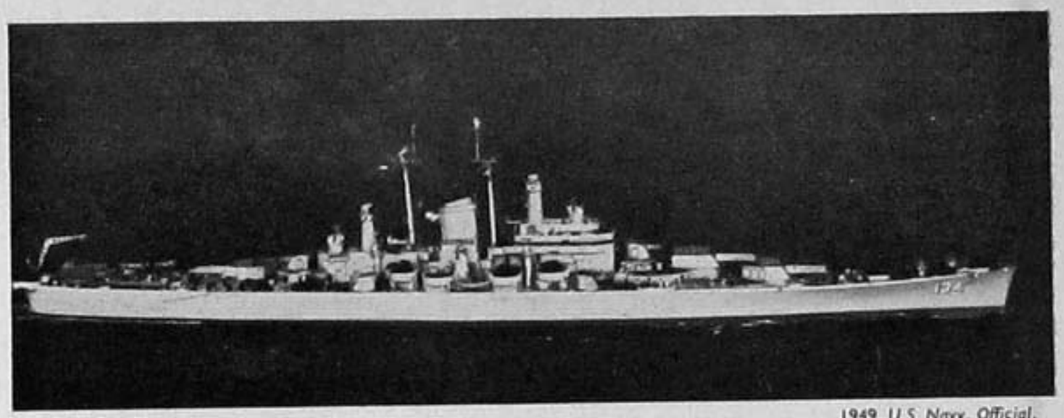
Appearance Note.—As completed have single funnels, thus resembling "Oregon City" class in appearance.

No.	*Name*	*Builders and Machinery*	*Laid down*	*Launched*	*Completed*
CA 134	*Des Moines*	Bethlehem Steel Co., Quincy	28 May 1945	27 Sept. 1946	17 Nov. 1948
139	*Salem*	Bethlehem Steel Co., Quincy	4 June 1945	25 Mar. 1947	9 May 1949
148	*Newport News*	Newport News Co.	1 Oct. 1945	6 Mar. 1947	29 Jan. 1949



SALEM. 1950, *U.S. Navy, Official.*

NEWPORT NEWS. 1949, *U.S. Navy, Official.*



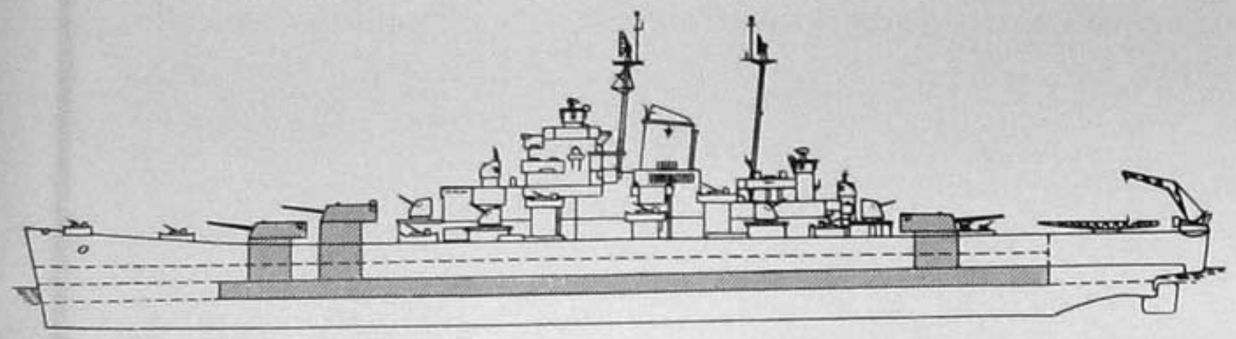
DES MOINES. 1949, *U.S. Navy, Official.*

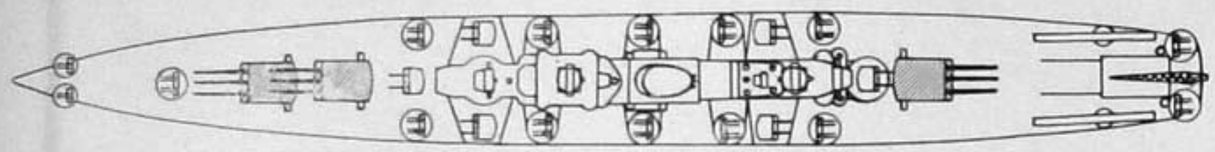
Heavy Cruisers (CA).

3 "Oregon City" Class.

ALBANY **OREGON CITY** **ROCHESTER**

Displacement:	13,700 tons, *Rochester* 13,000 tons *standard* (17,070 tons *full load*)
Dimensions:	Length: 673½ (o.a.) feet. Beam: 71 feet. Draught: 26 (*max.*) feet
Guns:	9—8 inch, 55 cal., 12—5 inch, 38 cal., 52—40 mm. AA., 24—20 mm. AA.
Aircraft:	1 helicopter
Armour:	6" side, 3" + 2" decks
Machinery:	General Electric geared turbines. 4 shafts. S.H.P.: 120,000 = 33 kts.
Boilers:	8 Babcock & Wilcox
Fuel:	2,500 tons
Complement:	1,700 (war)



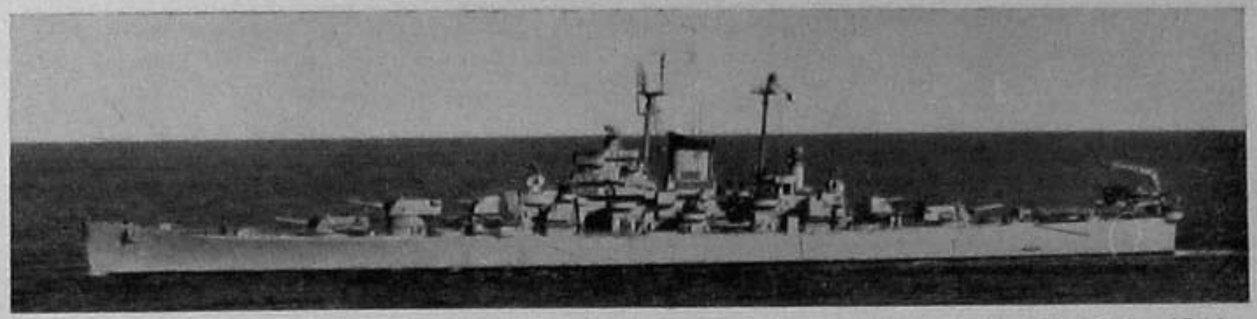


Note to Plan.—Catapults now discarded in *Albany* and *Rochester*. Armour does not cover the 8-inch magazines (on the side only).

General Notes.—These ships are modified *Baltimores*, with a single funnel and simplified superstructure. Bridge is further aft than in *Baltimore* class. Six more units of this class were cancelled, CA 126–129 (*Cambridge, Bridgeport, Kansas City, Tulsa*), CA 137 and CA 138 (*Norfolk, Scranton*).

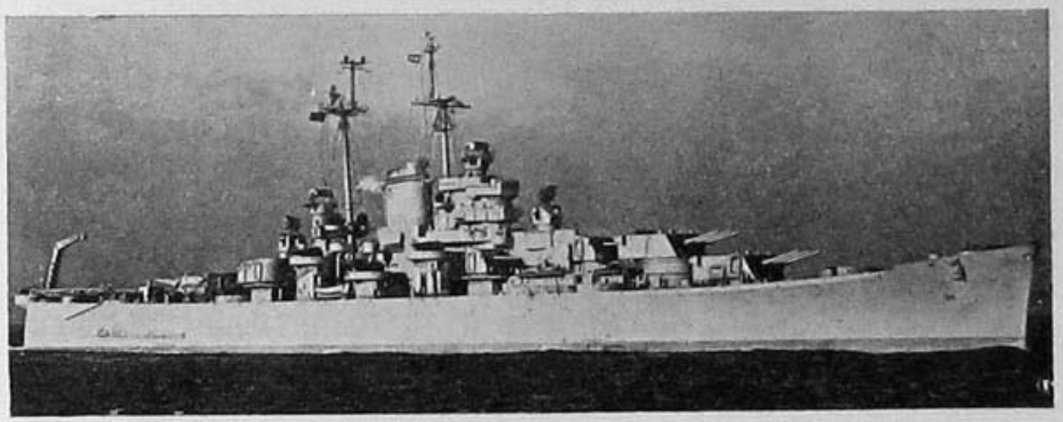
Engineering Notes.—Cruising turbines are not included in engine design. In event of port or starboard fuel tanks being ruptured, change-over of suction to other side could be accomplished in a minute, oil burner lines being divided at boiler face.

No.	*Name*	*Builders and Machinery*	*Laid down*	*Launched*	*Completed*
CA 122	*Oregon City*	Bethlehem Steel Co., Quincy	8 Apr. 1944	9 Apr. 1945	16 Feb. 1946
123	*Albany*		6 Mar. 1944	30 June 1945	15 June 1946
124	*Rochester*		29 May 1944	28 Aug. 1945	20 Dec. 1946



ALBANY. *Added* 1951 *U.S. Navy, Official.*

ALBANY. 1952 *Skyfotos.*



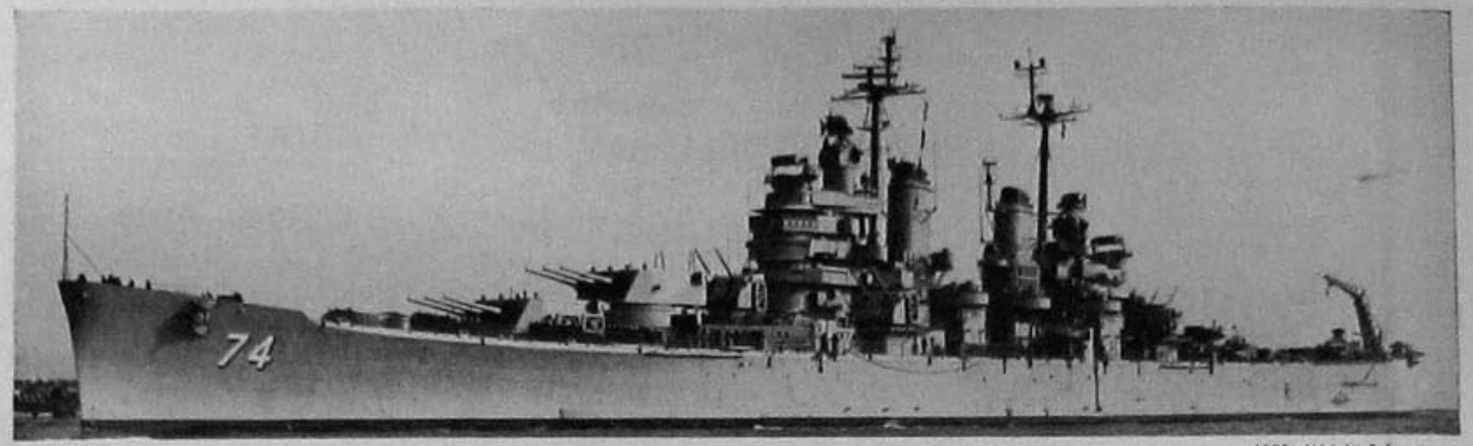
ROCHESTER. 1947, *U.S. Navy, Official.*

U.S.A.—Heavy Cruisers (CA) and Guided Missile Heavy Cruisers (CAG)

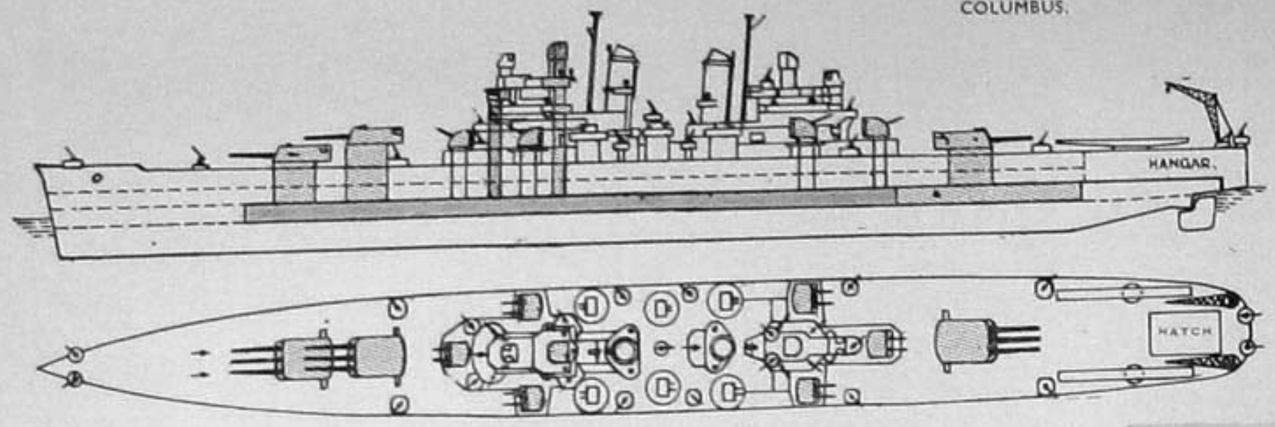
14 "Baltimore" Class.

BALTIMORE
G **BOSTON**
BREMERTON
G **CANBERRA** (*ex-Pittsburgh*)
CHICAGO
COLUMBUS
FALL RIVER
HELENA (*ex-Des Moines*)
LOS ANGELES
MACON
PITTSBURGH (*ex-Albany*)
QUINCY (*ex-St. Paul*)
ST. PAUL (*ex-Rochester*)
TOLEDO

Displacement :	13,600 tons (17,070 tons *full load*)
Dimensions :	Length: 673½ (o.a.) feet. Beam: 71 feet. Draught: 26 (*max.*) feet
Guns	9—8 inch 55 cal., 12—5 inch, 38 cal., 52—40 mm. AA., (3-inch guns replace 40 mm. in active units)
Aircraft :	All ships carry a helicopter
Armour :	6" side, 3" + 2" decks
Machinery :	Geared turbines, 4 shafts. S.H.P. : 120,000 = 34 kts.
Boilers :	8 Babcock & Wilcox
Fuel :	2,500 tons
Complement :	1,700 (war)



COLUMBUS. 1950, *Wright & Logan.*



HELENA. 1953, *U.S. Navy, Official.*

Note to Plan.—Only one crane now at stern. Catapults discarded.

General Notes.—*Boston* was built in two years. Are much enlarged and improved editions of *Wichita*. Last 6 ships belong to War Programme. *Canberra* was named in commemoration of H.M.A.S. *Canberra*, sunk in 1st Battle of Savo Island, Aug. 9, 1943.

Gunnery Note.—8-inch guns are a new model, firing a heavier shell than those mounted in earlier cruisers. *Bremerton, Columbus, Helena, Los Angeles* and *St. Paul* are to undergo armament conversion (improved rapid-firing 3-inch 50 cal. AA. guns replacing 40 mm. AA. guns.

No.	*Name*	*Builders and Machinery*	*Laid down*	*Launched*	*Completed*
CA 68	*Baltimore*	Bethlehem Steel Co., Quincy	26 May 1941	28 July 1942	15 Apr. 1943
CAG 1 (ex-CA 69)	*Boston*		30 June 1941	26 Aug. 1942	30 June 1943
CAG 2 (ex-CA 70)	*Canberra*		3 Sept. 1941	19 Apr. 1943	14 Oct. 1943
CA 71	*Quincy*		9 Oct. 1941	23 June 1943	15 Dec. 1943
CA 72	*Pittsburgh*		3 Feb. 1943	22 Feb. 1944	10 Oct. 1944
CA 73	*St. Paul*		3 Feb. 1943	16 Sep. 1944	17 Feb. 1945
CA 74	*Columbus*		28 June 1943	30 Nov. 1944	8 June 1945
CA 75	*Helena*		9 Sep. 1943	28 Apr. 1945	4 Sep. 1945
CA 130	*Bremerton*	New York S.B. Corpn.	1 Feb. 1943	2 July 1944	29 Apr. 1945
CA 131	*Fall River*		12 Apr. 1943	13 Aug. 1944	1 July 1945
CA 132	*Macon*		14 June 1943	15 Oct. 1944	25 Aug. 1945
CA 133	*Toledo*		13 Sep. 1943	6 May 1945	27 Oct. 1946
CA 135	*Los Angeles*	Philadelphia Navy Yard	28 July 1943	20 Aug. 1944	22 July 1944
CA 136	*Chicago*		28 July 1943	20 Aug. 1944	10 Jan. 1945

Note.—*Boston* and *Canberra* are being converted to guided missile ships (CAG).

ST. PAUL. 1953, *U.S. Navy, Official.*

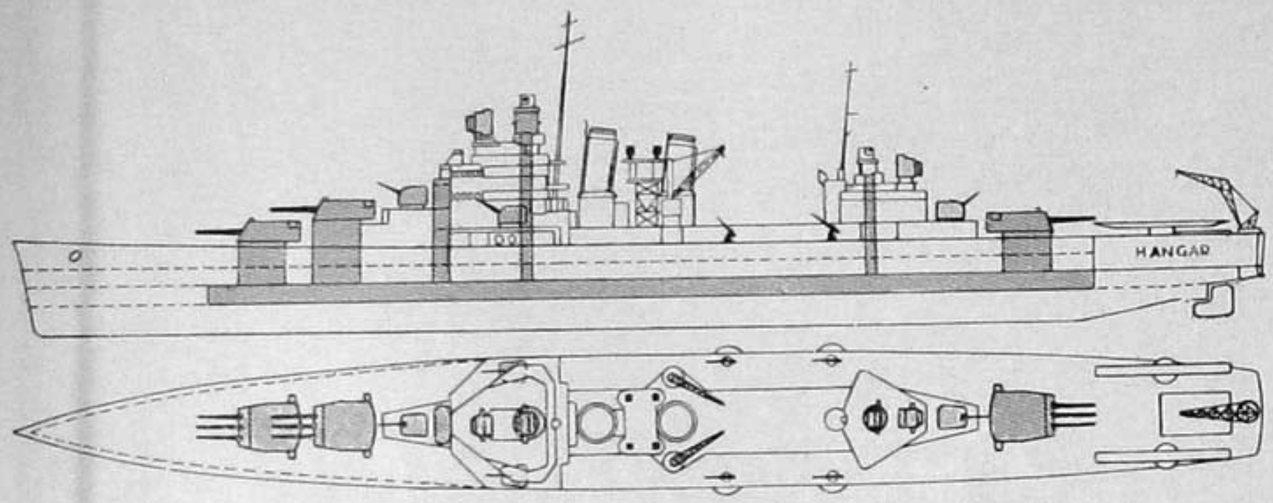
Heavy Cruiser—(CA).

WICHITA.

Added 1950, U.S. Navy, Official.

WICHITA

Builders :	Philadelphia Navy Yard
Engineers :	Westinghouse Co.
Laid down :	28 Oct. 1935
Launched :	16 Nov. 1937
Completed :	16 Feb. 1939
Displacement :	10,000 tons *standard* (13,700 tons *full load*)
Dimensions :	Length : 600 (*w.l.*), 614 (*o.a.*) feet. Beam : 61¾ feet. Draught : 19¾ (*mean*), 25 *max.* feet
Guns:	9—8 inch, 55 cal., 8—5 inch, 38 cal. (d.p.), 20—40 mm. AA., 14—20 mm. AA.
Aircraft :	4
Catapults :	2
Armour :	5" side (amidships), 1½" side (fore and aft), 3" + 2" decks, 6"—5" turret faces, 3" turret sides and backs, 8" C.T.
Machinery :	Westinghouse geared turbines. 4 shafts. S.H.P. : 100,000 = 32·5 kts.
Boilers :	8 Babcock & Wilcox
Fuel :	1,650 tons
Complement :	882 (peace), 1,200 (war)



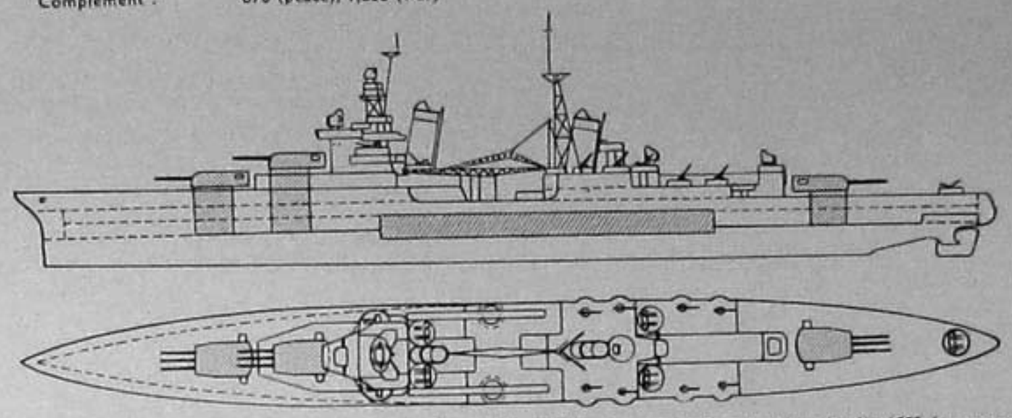
General Notes.—No. CA 45. Ordered 22 Aug. 1934. Though originally to have been a unit of "New Orleans" class, this ship was completed as a modified Brooklyn with 8-inch guns, thus becoming the eighteenth heavy cruiser built under Treaty limitations. Out of commission, in reserve.

Appearance Notes.—Half-cased funnels, set close together. Single gun houses above "B" and "Y" turrets and abreast bridge wing. The four 5 inch guns mounted in the waist are protected by splinter screens.

1 "Portland" Class.

PORTLAND

Builders :	Bethlehem Steel Co., Quiney.
Laid down :	17 Feb. 1930
Launched :	21 May 1932
Completed :	23 Feb. 1933
Displacement :	9,800 tons *standard* (13,000 tons *full load*)
Dimensions :	Length: 582 (*w.l.*), 610½ (*o.a.*) feet. Beam: 66$\frac{1}{16}$ feet. Draught: 17$\frac{1}{16}$ (*mean*), 24 (*max.*) feet
Guns :	9—8 inch, 55 cal.; 8—5 inch AA., 25 cal.; 24—40 mm. AA., 16—20 mm. AA.
Armour :	4"—3" vert. side; 3"—1¼" turrets; 2" + 2" decks
Machinery :	Parsons geared turbines. 4 shafts. S.H.P. : 107,000 = 32·7 kts.
Boilers :	8 Yarrow
Oil fuel :	1,600 tons
Complement :	876 (peace), 1,200 (war)



Notes.—No. CA 33. Placed at the disposal list after the Second World War, bur restored to the Navy List in 1952 (see notes under "Chester" class below.)

3 "Chester" Class.

CHESTER.

Added 1953, U.S. Navy, Official.

	AUGUSTA	CHESTER	LOUISVILLE
Displacement :	9,050 tons *standard* (*Chester* 9,200 tons), 12,000 tons *full load*		
Dimensions :	Length: 569 (*w.l.*), 600½ (*o.a.*) feet. Beam: 66$\frac{1}{16}$ feet. Draught: 16½ (*mean*), 23 (*max.*) feet (*Chester* 570 (*w.l.*), 16½ (*mean*) feet)		
Guns :	9—8 inch, 55 cal.; 8—5 inch AA., 25 cal.; 32—40 mm. AA., 27—20 mm. AA.		
Armour :	3" vert. side; 1½" gunhouses; 2" + 1" decks		
Machinery :	Parsons geared turbines. 4 shafts. Designed S.H.P. : 107,000 = 32·7 kts.		
Boilers :	8 White Forster		
Oil fuel :	1,500 tons		
Radius :	13,000 miles at 15 kts.		
Complement :	872 (peace), 1,200 (war)		

Notes.—These three ships were placed on the supernumerary list with *Portland* (see above) after the Second World War pending a decision as to their disposal, but in 1952 they were included in the list of naval vessels in the Atlantic Reserve Fleet and no longer in the list of ships to be disposed of.

No.	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
CA 31	*Augusta*	Newport News, Co.	2 July 1928	1 Feb. 1930	30 Jan. 1931
CA 27	*Chester*	New York S.B. Corpn.	6 Mar. 1928	3 July 1929	24 June 1930
CA 28	*Louisville*	Puget Sound Navy Yard	4 July 1928	1 Sep. 1930	15 Jan. 1931

Heavy Cruisers—(CA).

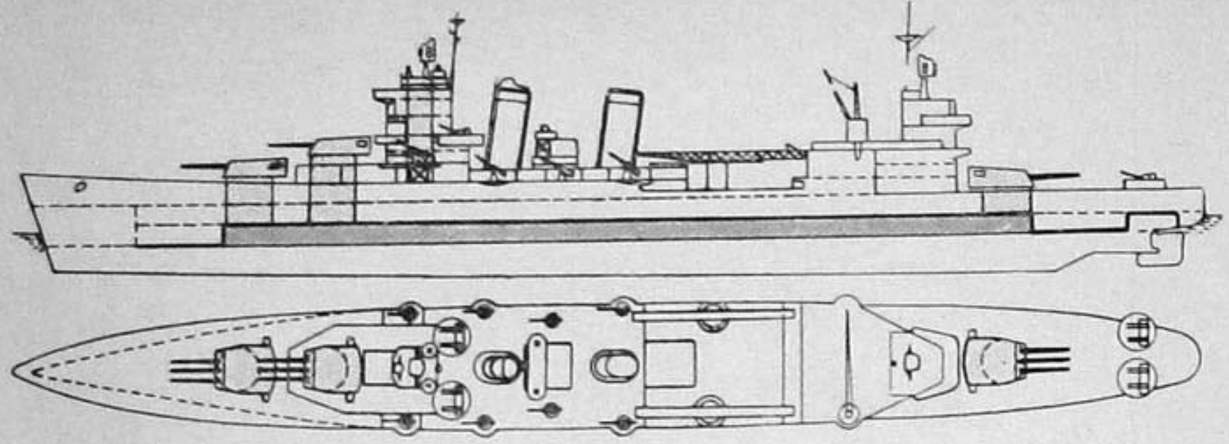
4 "New Orleans" Class.

NEW ORLEANS
MINNEAPOLIS

TUSCALOOSA
SAN FRANCISCO

Displacement :	9,950 tons, except *Tuscaloosa*, 9,975 tons (13,500 tons *full load*), *New Orleans* 13,100 tons *full load*)
Dimensions :	Length : 574 (*w.l.*), 588 (*o.a.*) feet. Beam : 61¾ feet. Draught : 19½ (*mean*), 25 (*max.*) feet
Guns :	9—8 inch, 55 cal., 8—5 inch AA., 25 cal., 24—40 mm. AA., 19—20 mm. AA.
Aircraft :	4
Catapults :	2
Armour :	1½" side (fore and aft), 5" side (amidships between sections 10-17), 3" + 2" decks,. 5"—6" turret faces, 3" turret sides and backs, 8" conning tower
Machinery :	Parsons geared turbines in *Tuscaloosa* ; Westinghouse in others. 4 shafts. S.H.P. : 107,000 = 32·7 kts.
Boilers :	8 Babcock & Wilcox
Fuel :	1,650 tons
Complement :	876 (peace), 1,200 (war)

NEW ORLEANS. *Added 1950, U.S. Navy, Official.*



SAN FRANCISCO. *Added 1950, U.S. Navy, Official.*

General Notes.—In this class the utmost economy has been effected in construction, electric welding having been employed extensively and weight saved in every direction even to the extent of using aluminium paint internally. There is a certain amount of plating on the bridgework, not shown in the plan.

Gunnery Notes.—8 inch guns elevate to 45 degrees. Anti-aircraft armament augmented in 1940-41.

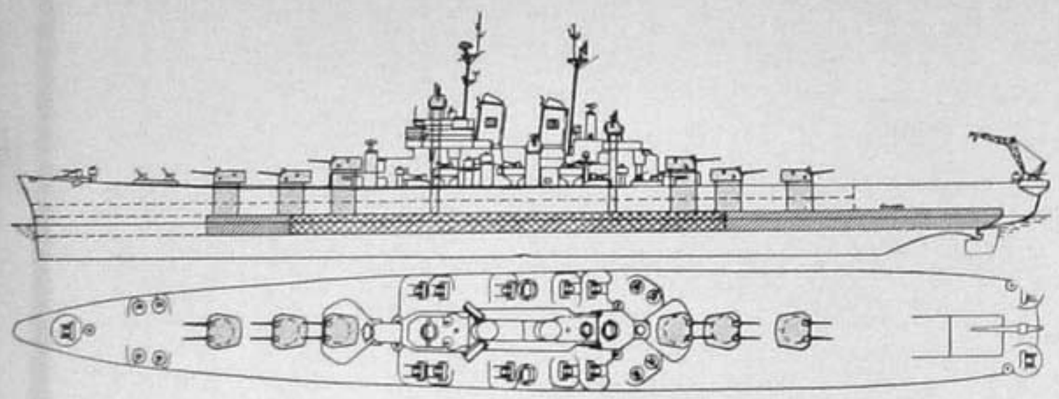
No.	*Name*	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*
CA 32	*New Orleans*	New York Navy Yard	Westinghouse Co.	14 Mar. 1931	12 Apr. 1933	18 Apr. 1934
36	*Minneapolis*	Philadelphia Navy Yard	Westinghouse Co.	27 June 1931	6 Sep. 1933	20 June 1934
37	*Tuscaloosa*	New York S.B. Corp.	N.Y.S.B. Corp.	3 Sep. 1931	15 Nov. 1933	17 Aug. 1934
38	*San Francisco*	Mare Isld. Navy Yard	Westinghouse Co.	9 Sep. 1931	9 Mar. 1934	23 Apr. 1933

135R

Light Cruisers (CL).

2 "Worcester" Class.

	ROANOKE	WORCESTER
Displacement :	14,700 tons (18,000 tons *full load*)	
Dimensions :	Length : 668 (*w.l.*) 679½ (*o.a.*) feet. Beam : 70½ feet. Draught : 25 (*max.*) feet	
Guns :	12—6 inch, 47 cal., d.p. (semi-automatic), 20—3 inch, 50 cal., d.p. (rapid fire)	
Aircraft :	1 helicopter	
Armour :	6" — 3" side, 4" turrets, 3" + 2" decks	
Machinery :	Geared turbines. 4 shafts. S.H.P. : 120,000 = 32 kts.	
Boilers :	8 Babcock & Wilcox	
Oil fuel :	3,300 tons	
Complement :	973 (peace), 1,700 (war)	

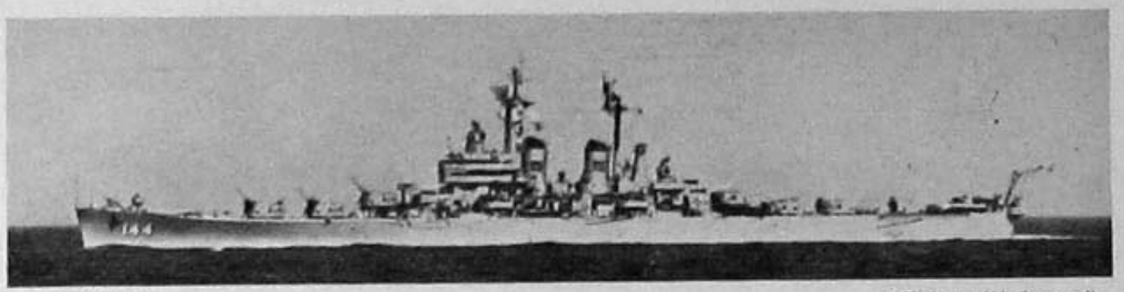


Notes.—Both ordered June 15, 1943. *Roanoke* commissioned at Philadelphia Navy Yard. These ships, which are larger than most heavy cruisers, but nevertheless rated as light cruisers by Treaty definitions, have 6-inch guns of a new automatic model, arranged similarly to 5-inch in *Spokane*, and 3-inch in twin mounts of a new type. Two incomplete sister ships, *Vallejo* (146) and *Gary* (147), were cancelled on Aug. 11, 1945. Six additional ships, CL 154-159, were cancelled in 1945.

No	*Name*	*Builders*	*Laid down*	*Launched*	*Completed*
CL 145	*Roanoke*	New York S.B. Corpn., Camden	15 May 1945	16 June 1947	4 Apr. 1948
144	*Worcester*		29 Jan. 1945	4 Feb. 1947	25 June 1948

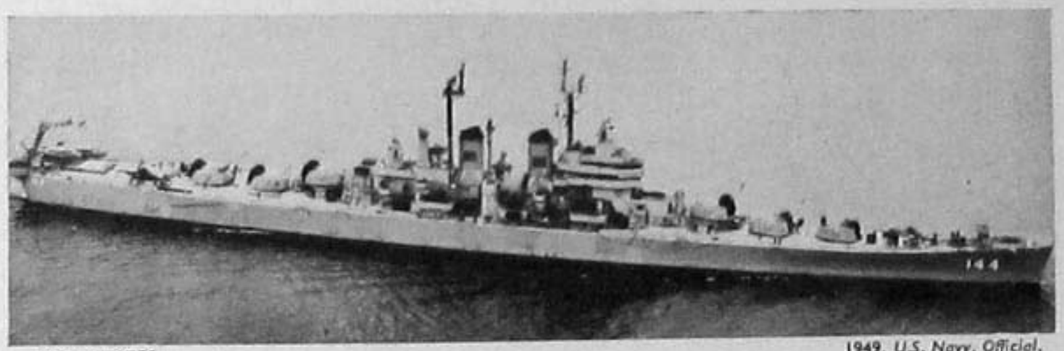
ROANOKE.

Added 1951, courtesy "Our Navy."



WORCESTER.

1952, *Lieut. Aldo Fraccaroli.*



WORCESTER.

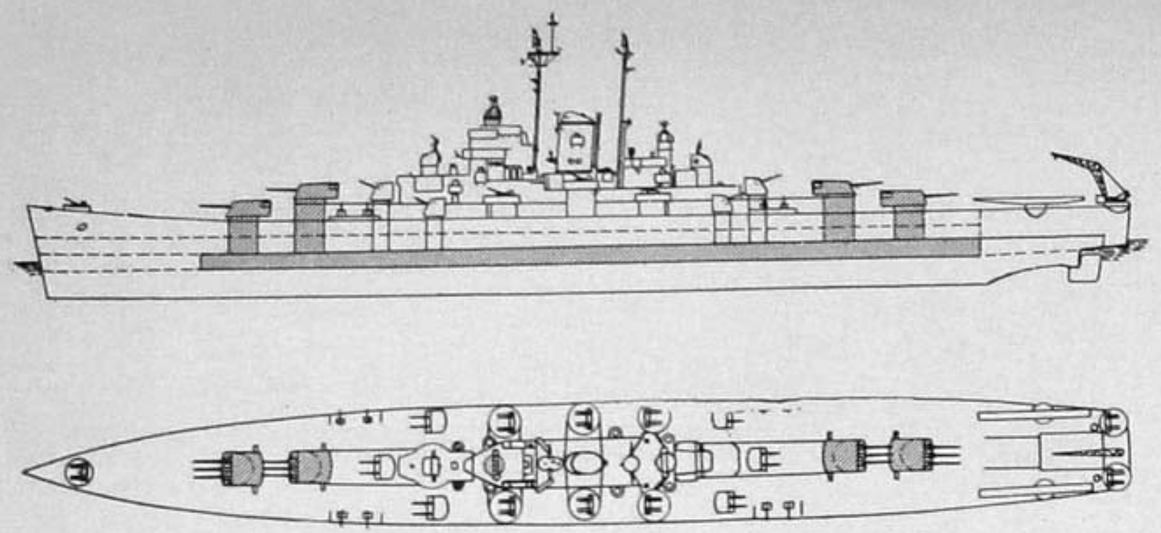
1949, *U.S. Navy, Official.*

Light Cruisers (CL).

2 " Fargo " Class.

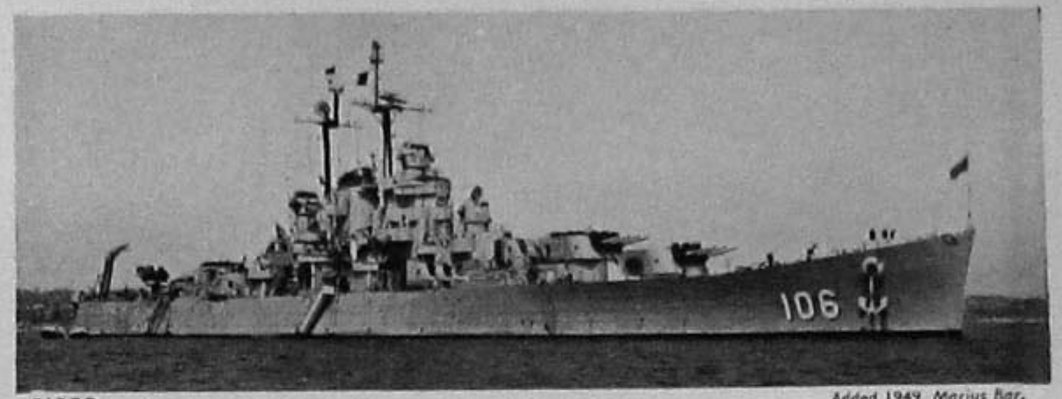
FARGO **HUNTINGTON**

Displacement :	10,000 tons (13,755 tons *full load*)
Dimensions :	Length : 600 (*w.l.*), 610 (*o.a.*) feet. Beam : 66 feet. Draught (at *normal* displacement) : 20 (*mean*), 25 (*max.*) feet
Guns :	12—6 inch, 47 cal. 12—5 inch, 38 cal., d.p., 24—40 mm. AA., 19—20 mm. AA.
Aircraft :	3 seaplanes
Catapults :	2
Armour :	Similar to *Cleveland* class
Machinery :	Geared turbines. 4 shafts. S.H.P. :100,000 = 32·5 kts.
Boilers :	8 Babcock & Wilcox
Complement :	916 (peace), 1,200 (war)



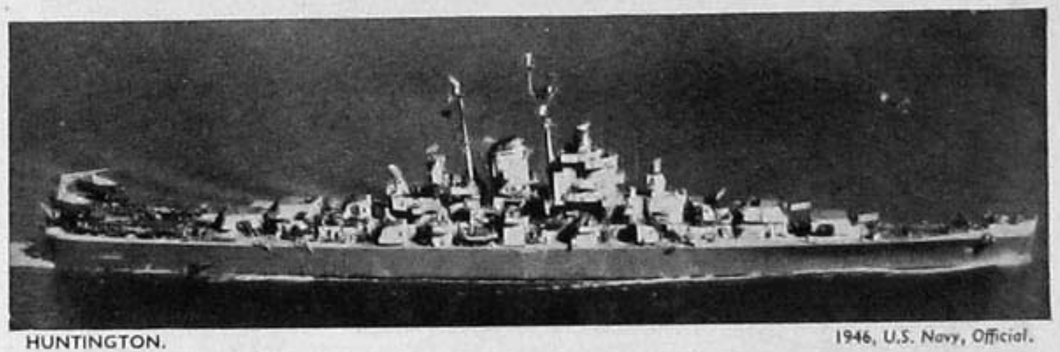
Notes.—These two ships are modified *Clevelands*, with single funnels and simplified superstructures, intended to enlarge the area of fire of AA. armament. Cancelled units : *Newark* (108), *New Haven* (109), *Buffalo* (110), *Wilmington* (111) ; Nos. 112-115 ; *Tallahassee* (116), *Cheyenne* (117), *Chattanooga* (118). Hull of *Newark* was sold for scrap in 1949 after being used for trials of torpedoes and mines.

No.	*Name*	*Builders and Machinery*	*Laid down*	*Launched*	*Completed*
106	*Fargo*	New York S.B. Corpn.	23 Aug. 1943	25 Feb. 1945	9 Dec. 1945
107	*Huntington)*		4 Oct. 1943	8 Apr. 1945	23 Feb. 1946



FARGO. *Added 1949, Marius Bar.*

FARGO. *1946, London Studio.*



HUNTINGTON. *1946, U.S. Navy, Official.*

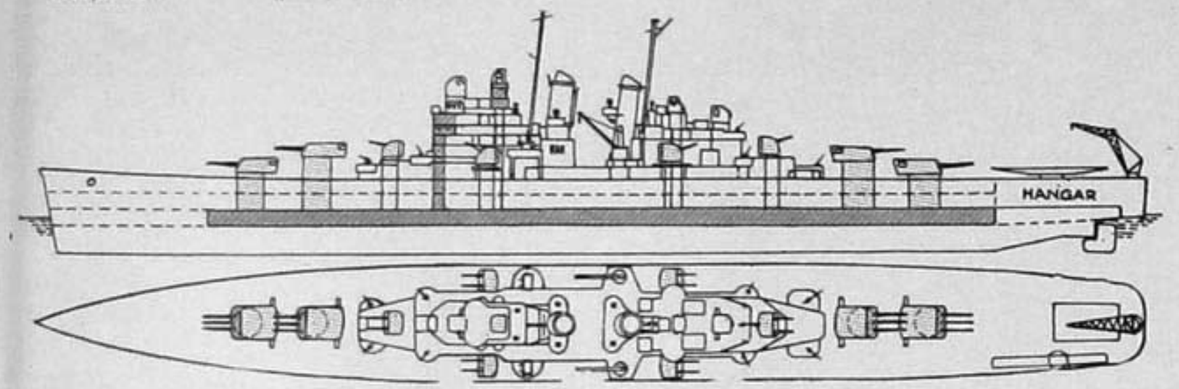
134R

27 "Cleveland" Class.

BIRMINGHAM. *Added 1950, U.S. Navy, Official.*

AMSTERDAM
ASTORIA (ex-*Wilkes-Barre*)
ATLANTA
BILOXI
BIRMINGHAM
CLEVELAND
COLUMBIA
DAYTON
DENVER
DULUTH
GALVESTON
HOUSTON (ex-*Vicksburg*)
LITTLE ROCK
MANCHESTER
MIAMI
MOBILE
MONTPELIER
OKLAHOMA CITY
PASADENA
PORTSMOUTH
PROVIDENCE
SANTA FE
SPRINGFIELD
TOPEKA
VICKSBURG (ex-*Cheyenne*)
VINCENNES (ex-*Flint*)
WILKES-BARRE

Displacement:	10,000 tons (13,755 tons *full load*)
Dimensions:	Length: 600 (*w.l.*), 610 (*o.a.*) feet. Beam: 66 feet. Draught: 20 (*mean*), 25 (*max.*) feet
Guns:	12—6 inch, 47 cal., 12—5 inch, 38 cal., (d.p.) paired, 24 to 28—40 mm. AA. (*Manchester* 3-inch in place of 40 mm. mounts), 19—20 mm. AA.
Aircraft:	3 (*Manchester* carries a helicopter)
Catapults:	1 or 2 (none in *Manchester*)
Armour:	5"-1½" side, 3"+2" decks, 5"-3" gunhouses
Machinery:	Geared turbines. 4 shafts. S.H.P.: 100,000=33 kts.
Boilers:	8 Babcock & Wilcox
Oil fuel:	2,000 tons
Complement:	916 (peace), 1,200 (war)



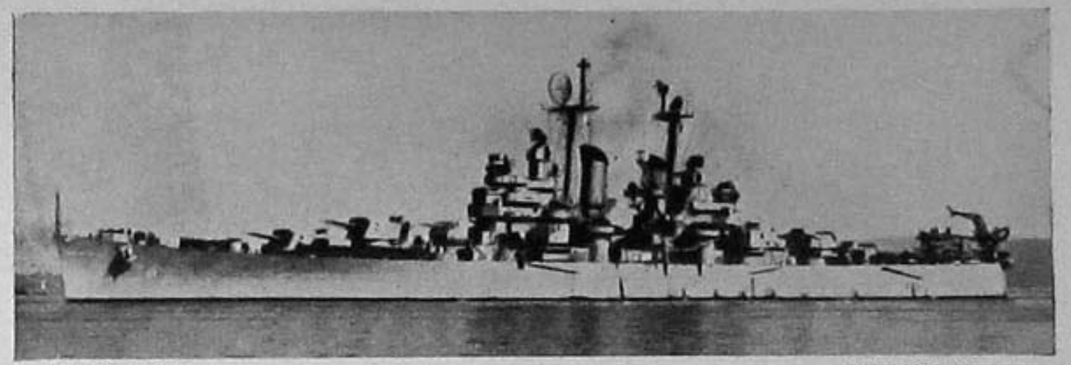
Note to Plan.—Cranes abreast of second funnel have been removed. *Manchester* has no catapult.

General Notes.—This is the largest group of cruisers of a single design ever put in hand. Nine originally ordered from New York S.B. Corpn. were converted into aircraft carriers of the "Independence" class. *Duluth* and *Vicksburg* were originally to have have been built by Federal S.B. & D.D. Co., but contracts were transferred. *Birmingham* was torpedoed Nov. 8, 1943; again severely damaged when *Princeton* blew up alongside her in Oct., 1944; and nearly sunk by a Japanese suicide aircraft whose bomb penetrated three of her decks off Okinawa on May 4, 1945. The *Houston* was heavily damaged by a torpedo from a Japanese aircraft off Formosa in Oct., 1944. Construction of *Youngstown* (94) was cancelled, Aug., 11, 1945. Nos. 84 and 88 were never begun.

Gunnery Notes.—*Manchester* has undergone armament conversion. She mounts 3 inch guns in place of former 40 mm.

Appearance Notes.—First seven ships (CL 55-58, 60, 62, 63) have round bridge fronts as in above photo of *Birmingham*. Remaining 20 ships have rectangular pilot house with a walk around the front.

MANCHESTER. *1949, Ted Stone.*



WILKES-BARRE. *Added 1949, Abrahams.*

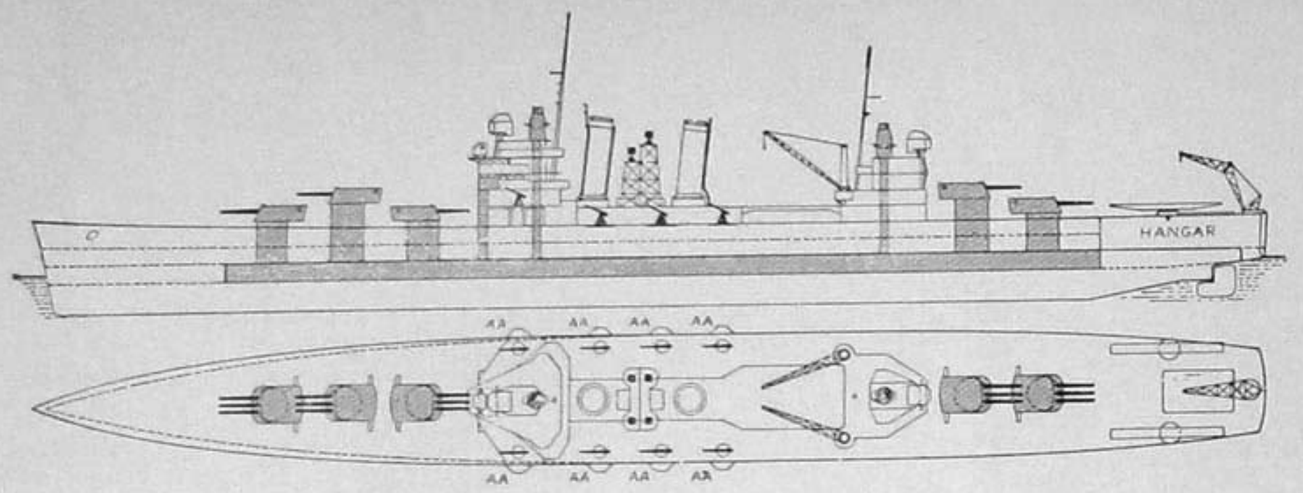
No.	Name	Builders and Machinery	Laid down	Launched	Completed
CL 55	*Cleveland*	New York S.B. Corpn.	1 July 1940	1 Nov. 1941	15 June 1942
56	*Columbia*		19 Aug. 1940	17 Dec. 1941	29 June 1942
57	*Montpelier*		2 Dec. 1940	12 Feb. 1942	9 Sep. 1942
58	*Denver*		26 Dec. 1940	4 Apr. 1942	15 Oct. 1942
60	*Santa Fe*		7 June 1941	10 Jan. 1942	24 Nov. 1942
103	*Wilkes-Barre*		14 Dec. 1942	24 Dec. 1943	1 July 1944
104	*Atlanta*		25 Jan. 1943	6 Feb. 1944	3 Dec. 1944
105	*Dayton*		8 Mar. 1943	19 Mar. 1944	7 Jan. 1945
64	*Vincennes*	Bethlehem Co., Quincy	7 Mar. 1942	17 July 1943	21 Jan. 1944
65	*Pasadena*		6 Feb. 1943	28 Dec. 1943	8 June 1944
66	*Springfield*		13 Feb. 1943	9 Mar. 1944	8 Sep. 1944
67	*Topeka*		21 Apr. 1943	19 Aug. 1944	23 Dec. 1944
82	*Providence*		27 July 1943	28 Dec. 1944	15 May 1945
83	*Manchester*		25 Sep. 1944	5 Mar. 1946	29 Oct. 1946
89	*Miami*	Cramp S.B. Co.	2 Aug. 1941	8 Dec. 1942	28 Dec. 1943
90	*Astoria*		6 Sept. 1941	6 Mar. 1943	17 May 1944
91	*Oklahoma City*		8 Dec. 1942	20 Feb. 1944	22 Dec. 1944
92	*Little Rock*		6 Mar. 1943	27 Aug. 1944	17 June 1945
93	*Galveston*		20 Feb. 1944	22 Apr. 1945	25 May 1946
62	*Birmingham*	Newport News Co.	17 Feb. 1941	20 Mar. 1942	29 Jan. 1943
63	*Mobile*		14 Apr. 1941	15 May 1942	24 Mar. 1943
80	*Biloxi*		9 July 1941	23 Feb. 1943	31 Aug. 1943
81	*Houston*		4 Aug. 1941	14 June 1943	20 Dec. 1943
86	*Vicksburg*		26 Oct. 1942	14 Dec. 1943	12 June 1944
87	*Duluth*		9 Nov. 1942	13 Jan. 1944	18 Sep. 1944
101	*Amsterdam*		3 Mar. 1943	25 Apr. 1944	8 Jan. 1945
102	*Portsmouth*		28 June 1943	20 Sep. 1944	25 June 1945

Light Cruisers (CL).

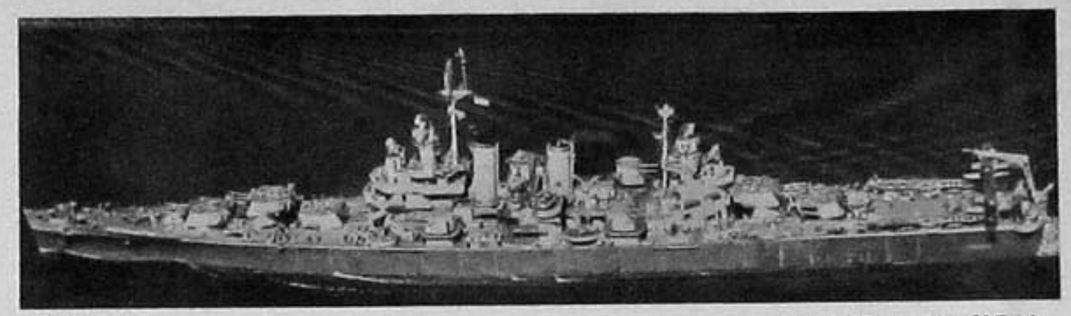
2 "Brooklyn" Class.

	HONOLULU	SAVANNAH
Displacement :	*Savannah*, 9,475 tons ; *Honolulu*, 9,650 tons (14,000 and 12,600 tons *full load* respectively)	
Dimensions :	Length : 600 (*w.l.*), 608½ (*o.a.*) feet. Beam : 69 feet. Draught : 19¾ (mean), 24 (*max.*) feet	
Guns :	15—6 inch, 47 cal., 8—5 inch, 38 cal. (*Savannah* has twin mounts), 28—40 mm. AA., 24—20 mm. AA.	
Aircraft :	4 (see *Notes*)	
Armour :	4"-1½" side, 3" + 2" decks, 5"—3" gunhouses, 8" C.T.	
Machinery :	Westinghouse geared turbines. 4 shafts. S.H.P. : 100,000 = 32·5 kts.	
Boilers :	8 Babcock & Wilcox Express type	
Oil fuel :	2,100 tons	
Radius :	14,500 miles at 15 kts.	
Complement :	975 (peace), 1,200 (war)	

Added 1953, U.S. Navy, Official.



Note to Plan.—Superstructure since reduced, bulges added, and beam increased.



SAVANNAH.

Added 1950, U.S. Navy, Official.

General Notes.—*Honolulu* was severely damaged by a bomb at Pearl Harbour on Dec. 7, 1941 ; and on Oct. 20, 1944, off Leyte, she was again badly damaged by a torpedo from a Japanese aircraft. *Honolulu* and *Savannah*, when refitted, had anti-torpedo bulges added, increasing beam by 8 feet. Both out of commission, in reserve.

Aircraft Notes.—The hangar included in hull right aft could, if necessary, accommodate 6 aircraft, with duplicate parts and spare engines, though 4 was normal complement. Presence of this hangar accounts for very wide flat counter and high freeboard aft, which is also utilised to give after guns higher command. The two catapults are mounted as far outboard as possible and the revolving crane is placed at the extreme stern, overhanging the hatch.

Class Notes.—*Brooklyn* and *Nashville* of this class were transferred to Chile ; *Philadelphia* and *St. Louis* (latter ship was of slightly modified type) were transferred to Brazil ; and *Boise* and *Phoenix* (of this class) transferred to Argentina, all Jan. 22-25, 1951. Two last-named ships (also *Nashville* and *St. Louis*) had been in Philadelphia with the Reserve Fleet but not a part of it, having been designated as excess to the needs of the U.S. Navy and already earmarked for disposal to South American countries. *Philadelphia*, which originally cost $14,750,000, actually commissioned in Brazilian Navy 21 Aug., 1951.

No.	*Name*	*Builders*	*Machinery*	*Laid down*	*Launched*	*Completed*
CL 42	*Savannah*	New York S.B. Corp.	Builders in each case	31 May 1934	8 May 1937	30 Aug. 1938
48	*Honolulu*	New York Navy Yard		10 Sept. 1935	26 Aug. 1937	7 Sept. 1938

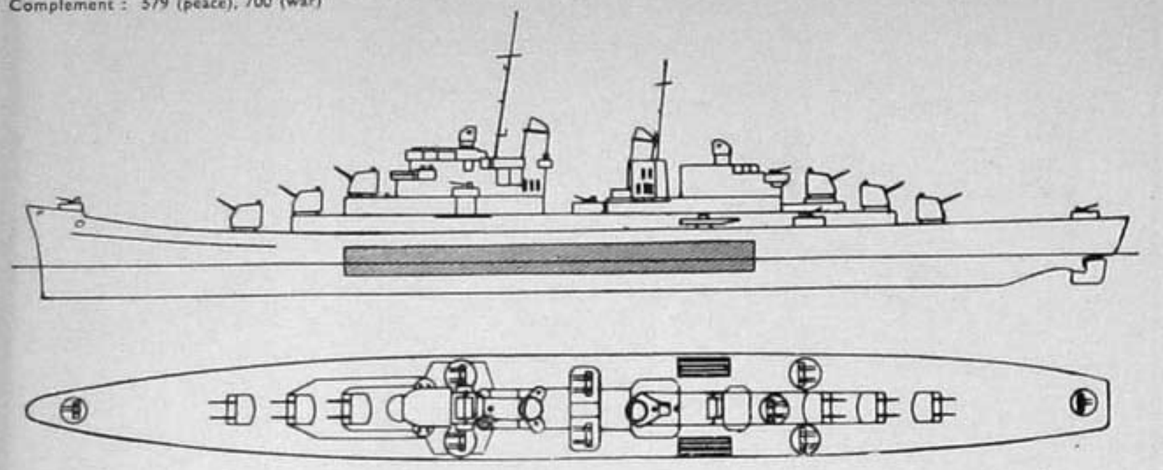
Anti-Aircraft Cruisers (CLAA).

9 "Juneau" ("Atlanta") Class.

FLINT (ex-*Spokane*)	**OAKLAND**	**SAN JUAN**
FRESNO	**RENO**	**SPOKANE**
JUNEAU	**SAN DIEGO**	**TUCSON**

Displacement 6,000 tons (9,200 tons *full load* except *Oakland*, 8,300 tons, *San Juan* 8,100 tons)
Dimensions : Length : 541 feet. Beam : 52¼ feet. Draught : 20 (*mean*), 24 (*max.*) feet
Guns : 12—5 inch, 38 cal. (d.p.), 24 to 32—40 mm. AA. (*Juneau* 16—3 inch in place of 40 mm.) 12 to 16—20 mm. AA.
Aircraft : *Juneau* carries a helicopter
Armour : 3½" side, 2" deck
Machinery : Geared turbines. 2 shafts. S.H.P.: 75,000 = 35 kts. (*designed*). Rated speed in service is not above 32 kts.
Complement : 579 (peace), 700 (war)

JUNEAU. 1952 *Photo, U.S. Navy, Official.*



SPOKANE. 1952, *Ted Stone.*

Notes to Plan.—Torpedo tubes have been removed. *San Diego and San Juan* had two wing turrets mounted abreast the after superstructure. In *Juneau, Spokane* and *Fresno*, "B" and "X" turrets were placed a deck lower than in earlier ships, and the torpedo tubes were omitted to improve stability.

General Notes.—Originally rated as light cruisers (CL). All recategorised as anti-aircraft cruisers (CLAA). Arrangement of main armament forward and aft is reminiscent of British "Dido" class. Bridges are reported to be armoured. The 6 earlier ships had 8—21 inch torpedo tubes in quadruple deck mountings which were removed in 1945. *Juneau* is the only one in commission. War losses: *Atlanta, Juneau*. (Two new ships of these names were built, of which the former belongs to the 10,000-ton "Cleveland" class.)

Gunnery Note.—*Juneau* has undergone armament conversion. She mounts 3-inch guns in place of former 40 mm. pieces.

Class Notes.—It is officially stated that all these vessels are classified by the U.S. Navy as "Atlanta" Class, but this is confusing since the name-ship was sunk in 1942 and the present U.S.S. *Atlanta* is one of a numerically large class of much bigger and more heavily armed cruisers (see War losses above).

No.		*Name*	*Builders and Machinery*	*Laid down*	*Launched*	*Completed*
CLAA	53	*San Diego*	Federal S.B. & D.D. Co., Kearny	27 Mar. 1940	26 July 1941	10 Jan. 1942
	54	*San Juan*		15 May 1940	6 Sept. 1941	28 Feb. 1942
	95	*Oakland*	Bethlehem Steel Co., S. Francisco	13 July 1941	23 Oct. 1942	17 July 1943
	96	*Reno*		12 Aug. 1941	23 Dec. 1942	28 Dec. 1943
	97	*Flint*		23 Oct. 1942	25 Jan. 1944	31 Aug. 1944
	98	*Tucson*		23 Dec. 1942	3 Sept. 1944	3 Feb. 1945
	119	*Juneau*	Federal S.B. & D.D. Co., Kearny	15 Sept. 1944	15 July 1945	14 Feb. 1946
	120	*Spokane*		15 Nov. 1944	22 Sept. 1945	17 May 1946
	121	*Ferson*		12 Feb. 1945	5 Mar. 1946	27 Nov. 1946

Tactical Command Ship (CLC).

Formerly rated as *Cruiser, Task Fleet Command Ship.*

1 "Northampton" Type.

NORTHAMPTON. 1953, *U.S. Navy, Official.*

NORTHAMPTON

Builders :	Bethlehem Co., Quincy, Mass.
Laid down :	31 Aug. 1944
Launched :	27 Jan. 1951
Completed :	7 Mar. 1953
Displacement :	17,000 tons *standard*
Dimensions :	Length : 676 (*o.a.*) feet. Beam : 71 feet. Draught : 25 (*max.*) feet
Guns :	4—5 inch, 54 cal. as main armament, 8—3 inch heavy AA. (see *Gunnery Notes*)
Armour :	6" side, 3" + 2" decks
Machinery :	General Electric geared turbines. 4 shafts. S.H.P. : 120,000 = 33 kts.
Boilers :	8 Babcock & Wilcox
Fuel :	2,500 tons

General Notes.—This vessel was originally designed as a heavy cruiser of the "Baltimore" class and was to have been completed as one of the modified "Oregon City" class numbered CA 125. She was 57 per cent. constructed as such when she was cancelled August 11, 1945. She was re-ordered July 1, 1948, and re-designed as a Task Force (now Tactical) Command Ship with the new rating of CLC 1. Accommodation and equipment have been modified accordingly. She will be fully air-conditioned with an installation at least as extensive as that of the largest heavy cruiser *Salem* to which she will now approximate in displacement. She was commissioned on 7 Mar., 1953, to fulfil the same functions as an AGC, i.e., as Operations-Communications-Headquarters Ship, but will have more speed manoeuvrability, armament, and anti-aircraft fire than AGC

Gunnery Notes.—The main armament comprises four 5-inch dual purpose guns of a new model disposed in single turrets, two forward and two aft, "B" and "X" superfiring over "A" and "Y" respectively. The anti-aircraft armament includes eight 3-inch weapons, also of a new pattern, disposed in twin turrets, two on each side amidships abreast the funnel.

NORFOLK (immediately after launching). *U.S. Navy, Official.*

Destroyer Leader (DL).

(Formerly rated as *Cruiser, Hunter Killer Ship*, CLK).

1 "Norfolk" Type.

NORFOLK

Builders :	New York Shipbuilding Corporation, Camden, New Jersey
Ordered :	17 Nov. 1948
Laid down :	1 Sept., 1949
Launched :	29 Dec. 1951
Completed :	4 Mar. 1953
Displacement :	5,500 tons *standard*
Dimensions :	Length : 540 (*o.a.*) feet. Beam : 54 feet
Guns :	4—5 inch, 4—3 inch
Speed :	34 kts. *max.* (unofficial)
Complement :	440

General Notes.—Designed as a special category of anti-submarine vessel of cruiser size and entirely novel type to engage in hunter killer operations even in the worst weather, and incorporates lessons learned at Bikini in her construction. Cost, exclusive o armament, reported to be $44,000,000. Re-rated in 1951 as a Destroyer Leader, a new category to the U.S. Navy List. Equipped with newly developed communications equipment including radar, sonar, and electronics gear. Will serve as flagship for destroyer screens attached to fast carrier forces.

Engineering Notes.—The trial speed is reported to have exceeded 30 knots.

Appearance Notes.—Has hull form resembling that of "Juneau" class, with tall bridge structure and curved stem.

Class Notes.—Two Hunter-Killer Shps were authorised in 1947. *Norfolk* (originally CLK 1) now DL-1 (Destroyer Leader) was commissioned for service in March 1953. The construction of her sister ship, CLK 2, was deferred in 1949.

Destroyer Leaders (DL).

4 "Mitscher" Class.

MITSCHER. 1953, courtesy *Builders.*

MITSCHER (ex-DD 927) **JOHN S. McCAIN** (ex-DD 928) **WILLIS A. LEE** (ex-DD 929) **WILKINSON** (ex-DD 930)

Displacement :	3,675 tons (4,400 tons *full load*)
Dimensions :	450 (*pp.*), 493 (*o.a.*) × 50 × 20 feet
Guns :	2—5 inch (single, new pattern), 4—3 inch (twin, new pattern)
Complement :	350 (peace) 440 (war)

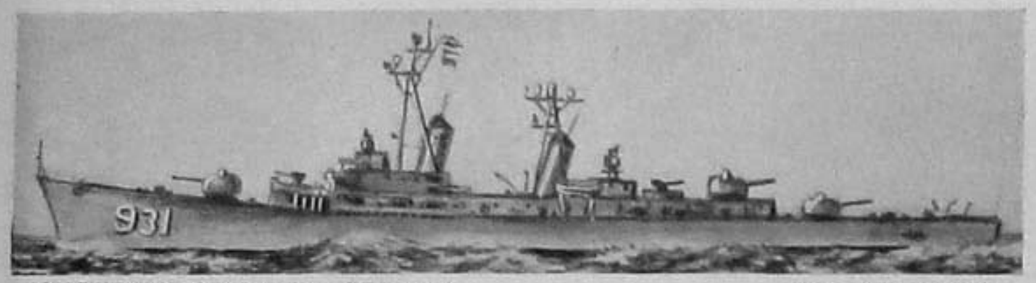
Notes.—Begun as DDs, but re-rated as DLs while building in 1951. The largest destroyers ever built in the United States and in the world. Larger than some ships rated as light cruisers in other countries. Officially stated cost $29,500,000 each exclusive of, armament. Of a new design specifically constructed as a long-range fleet type for anti-submarine duties. Authorised February 1948. All ordered Aug. 3, 1948. Named in honour of fighting admirals of Second World War. Carry the latest surface, underwater and anti-aircraft weapons. Equipped with newly developed electronic devices for hunter-killer missions. Propelling machinery includes many advanced engineering features not previously installed in fighting ships, to give speeds of 32 to 35 knots.

No.	*Name*	*Builders*	*Laid down*	*Launched*
DL 2	*Mitscher*	Bath Iron Works, Corpn.	3 Oct. 1949	26 Jan. 1952
DL 3	*John S. McCain*	Bath Iron Works, Corpn.	24 Oct. 1949	July 1952
DL 4	*Willis A. Lee*	Bethlehem, Quincy	1 Nov. 1949	26 Jan. 1952
DL 5	*Wilkinson*	Bethlehem, Quincy	1 Feb. 1950	23 Apr. 1952

Destroyers (DD)

New Construction

3 "Forrest Sherman" Class



FORREST SHERMAN (drawing from official model). 1953, C. W. E. *Richardson.*

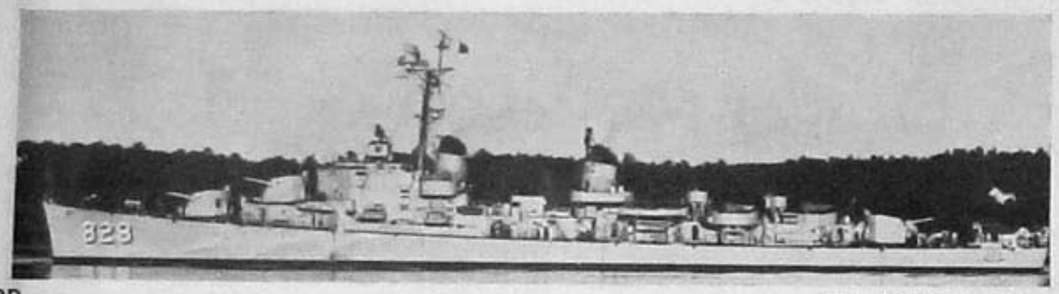
3 *Bath Iron Works*

DD 931 FORREST SHERMAN	DD 932 JOHN PAUL JONES	DD 933 BARRY

Displacement :	2,850 tons *standard* (3,518 tons trial displacement)
Dimensions :	418½ × 45 × 19½ feet
Guns :	3—5 inch (1 forward, 2 aft), 4—3 inch
Tubes :	4—21 inch
A/S weapons :	Hedgehogs, depth charge projectors, depth charge tracks
Machinery :	Geared steam turbines
Boilers :	4
Complement :	337

Notes.—The construction of three destroyers was provided for under the 1952-53 programme. The building of a fourth unit of this class was cancelled to help provide funds for the second "Forrestal" class attack aircraft carrier. Will not be radical in design but will embody certain improvements in armament. Increased freeboard forward. Entire ship's structure above main deck including gun foundations, will be of aluminium to obtain maximum stability while maintaining minimum ship displacement. Named in honour of Admiral Forrest P. Sherman, late Chief of Naval Operations; Paul Jones, renowned naval commander of the Revolutionary War; and John Barry, also a famed Revolutionary War naval officer. To be completed autumn 1955.

Experimental Destroyer (EDD).



1953, *U.S. Navy, Official.*

EDD
828 TIMMERMAN

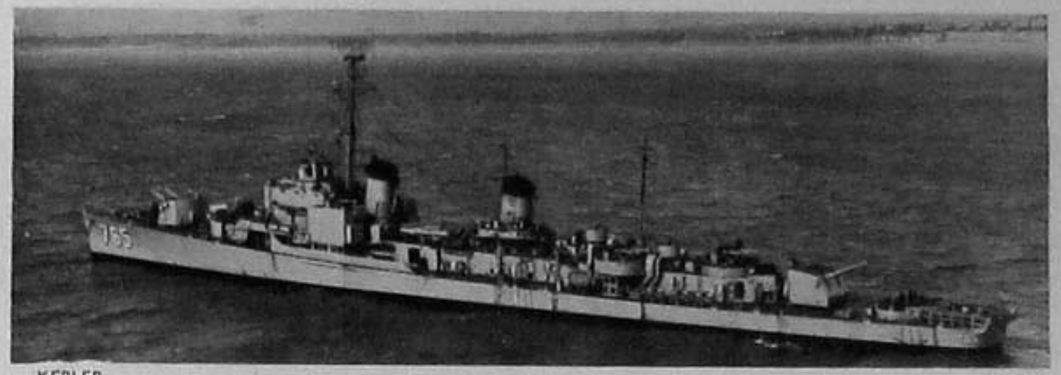
Displacement :	2,425 tons
Dimensions :	390½ × 40½ × 12½ feet
Guns :	6—5 inch, 6—3 inch
Complement :	350 (war)

General Notes.—This ship was completed to a new design. She is a modification of the original "Gearing" type. First ship of post-war construction completed for the Navy. No tubes. Built by Bath Iron Works Corpn. Laid down 1 Oct. 1945. Launched 19 May 1951. Commissioned 26 September 1952

Engineering Notes.—Fitted with "more powerful machinery of light weight," employing much higher temperatures and pressures, than hitherto. The reduction in weight is far beyond anything previously attempted to determine how light naval machinery can be without sacrificing required strength. Largely experimental, several novel engineering features being incorporated.

Escort Destroyers (DDE).

8 "Carpenter" Class.



KEPLER. 1953, *Skyfotos.*

LLOYD THOMAS. 1953, *U.S. Navy, Official.*

1 *Bath Iron Works Corpn.*

DDE
827 ROBERT A. OWENS (15 July 1946)

2 *Bethlehem, S. Francisco*
765 KEPLER (24 June 1946)
764 LLOYD THOMAS (5 Oct. 1945)

4 *Bethlehem, S. Pedro*

DDE
858 FRED T. BERRY (28 Jan. 1945)
861 HARWOOD (24 May 1945)
860 McCAFFERY (12 April 1945)
859 NORRIS (25 Feb. 1945)

1 *Consolidated Steel Corpn. (Completed by Newport News)*

DDE
825 CARPENTER (30 Dec. 1945)

Displacement :	2,425 tons, *Carpenter* and *Robert A. Owens* 2,500 tons (over 3,300 tons *full load*)
Dimensions :	390½ (*o.a.*) × 40½ × 19 (*max.*) feet
Guns :	4 to 6—3 inch (twin-automatic), 2 large ahead throwing A/S weapons, 2 or 3 hedgehogs or zebras in *Carpenter* and *Robert A. Owens*; 4—5 inch, 8—3 inch, 1 large A/S weapon in others
Tubes :	5—21 inch (none in *Carpenter* and *Robert A. Owens*)
Machinery :	Geared turbines. 2 shafts. S.H.P. : 60,000 = 35 kts.
Boilers :	4
Complement :	350

Notes.—Originally designed as units of the "Gearing" class. *Robert A. Owens* and *Carpenter*, towed to Newport News in 1947, were completed as Hunter-killer Destroyers on Nov. 5, 1949 and Dec. 15, 1949, respectively. The remaining six were converted under the 1949 Programme. Launch dates above. They were rated as DDKs until March 4, 1950, when the DDE and DDK types merged. *Robert A. Owens* had six 3-inch guns. In *Carpenter* the forward 5-inch twin turret was removed, a pair of twin 3-inch automatic weapons substituted, and a bandstand containing a large weapon of the hedgehog type in place of the superimposed 5-inch turret. It is understood that additional multiple A/S mortars have been installed amidships and aft, and a number of Sono-buoys are included in the equipment. These are dropped in a diamond shaped pattern of five (one in the middle) outlining an area in which a submarine is suspected to be in operation. They contain microphones, and by keeping track of which picks up the loudest sound the destroyer can determine in which direction and at what speed and depth the submarine is moving. Once this is detected the destroyer moves in rapidly for the kill, laying down a pattern of depth bombs.

General Note on DDEs (former DDKs). —Vessels have been completed as such and converted from existing DDs in order to form groups for the purpose of long- and short-range interception of submarines before they can attack convoys.

Destroyers (DD).
57 + 5 "Gearing" Class.

13 *Bath Iron Works*
DD
826 AGERHOLM
845 BAUSSELL
R 838 ERNEST G. SMALL
R 842 FISKE
836 GEORGE K. MACKENZIE
840 GLENNON
841 NOA
846 OZBOURN
844 PERRY
839 POWER
E 837 SARSFIELD
843 WARRINGTON
E 848 WITEK

4 *Bethlehem, Quincy*
853 CHARLES H. ROAN
850 JOSEPH P. KENNEDY JR.
852 LEONARD F. MASON
851 RUPERTUS

3 *Bethlehem, S. Francisco*
*766 LANSDALE
*767 SEYMOUR D. OWENS
763 WILLIAM C. LAWE

10 *Bethlehem, Staten Island*
DD
869 ARNOLD J. ISBELL
868 BROWNSON
865 CHARLES R. WARE
866 CONE
R 870 FECHTELER
872 FOREST ROYAL
864 HAROLD J. ELLISON
R 863 STEINAKER
867 STRIBLING
862 VOGELGESANG

11 *Consolidated Steel Corpn.*
877 BRINKLEY BASS
R 817 CORRY
884 FLOYD B. PARKS
885 JOHN R. CRAIG
821 JOHNSTON
890 MEREDITH
R 889 O'HARE
886 ORLECK
822 ROBERT H. McCARD
823 SAMUEL B. ROBERTS
R 888 STICKELL

11 *Federal S.B. & D.D. Co.*
DD
*720 CASTLE
R 711 EUGENE A. GREENE
710 GEARING
712 GYATT
718 HAMNER
R 713 KENNETH D. BAILEY
717 THEODORE E. CHANDLER
R 715 WILLIAM M. WOOD
R 714 WILLIAM R. RUSH
716 WILTSIE
*721 WOODROW R. THOMPSOM

10 *Todd Pacific Shipyards*
789 EVERSOLE
783 GURKE (ex-John A.Bole)
785 HENDERSON
788 HOLLISTER
787 JAMES E. KYES
R 784 McKEAN
786 RICHARD B. ANDERSON
782 ROWAN
*791 SEAMAN
790 SHELTON

Displacement :	2,425 tons (3,479 tons *full load*)
Dimensions :	390½ (*o.a.*) × 40½ × 19 (*max.*) feet
Guns :	6—5 inch, 38 cal (*Witek* and *Sarsfeld*, 4—5 inch, with "B" twin 5-inch turret forward replaced by ahead throwing weapon), 6—3 inch (see notes)
A/S weapons :	2 hedgehogs (fixed, ahead throwing, multi-barrelled weapons), 1 depth charge rack, several K-guns
Tubes :	5—21 inch (quintupled)
Machinery :	Geared turbines. 2 shafts. S.H.P. : 60,000 = 35 kts.
Boilers :	4
Complement :	257 (peace), 350 (war)

General Notes.—Enlarged versions of "Allen M. Sumner" type, with extra 14 feet length, necessitated by additional installations. All having tripod mast fitted to accommodate new large radar aerials. A 165 ton, 120-feet long bow section of the uncompleted destroyer *Seymour D. Owens* was transferred to the *Ernest G. Small* to replace the latters' bow section which was lost when that ship struck a mine off Songjin, Korea, 7 Oct. 1951. 24 units converted to Radar Picket Destroyers (DDR) and 12 more marked **R** to be converted, 8 to Hunter-Killer Destroyers (DDE formerly DDK), 7 to Escort Destroyers (DDE), *Timmerman* completed to a new design (EDD), and *Richard E. Kraus* re-designated (AG)—see preceding and following pages. Cancellations: DD 809-816, 854-856 891-926, *Abner Read* (769), *Hoel* (768).

Gunnery Notes.—Most of this class have or will have their former 16—40 mm. AA. guns replaced by six 3-inch guns: 2 pairs aft in "Q" and "X" positions and 2 single guns on either bridge wing.

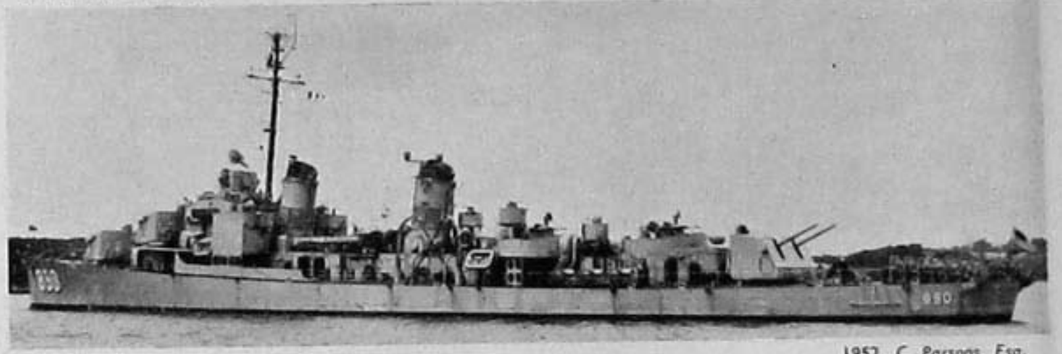
* Construction of *Castle, Seaman, Lansdale, Seymour D. Owens* and *Woodrow R. Thompson* was suspended in June 1946, so that some might be completed to modified design. **E** *Sarsfield* and *Witek* now DDEs.

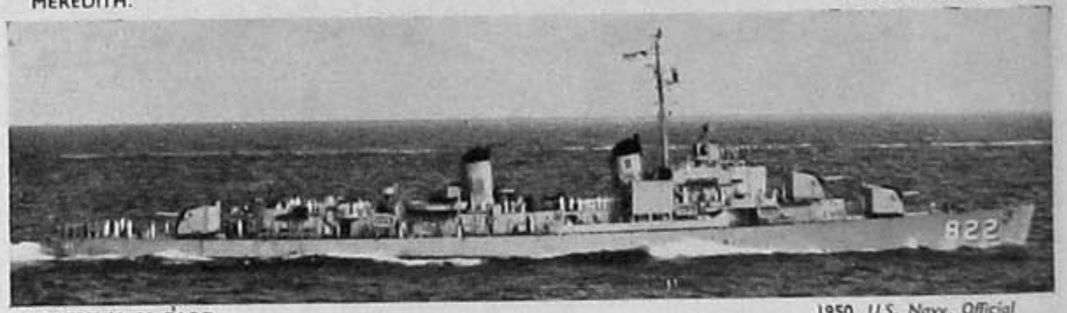
Name	*Launched*	*Completed*
Agerholm	30 Mar. 1946	
Arnold J. Isbell	6 Aug. 1945	
Bausell	19 Nov. 1945	
Brinkley Bass	26 May 1945	
Brownson	7 July 1945	
Castle	16 Feb. 1946	
Charles H. Roan	15 Mar. 1946	
Charles R. Ware	12 Apr. 1945	21 July 1945
Cone	10 May 1945	17 Aug. 1945
Corry	28 July 1945	
Ernest G. Small	9 June 1945	21 Aug. 1945
Eugene A. Greene	18 Mar. 1945	8 June 1945
Eversole	7 Dec. 1945	
Fechteler	19 Sep. 1945	
Fiske	8 Sep. 1945	
Floyd B. Parks	31 Mar. 1945	31 July 1945
Forest Royal	17 Jan. 1945	
Gearing	18 Feb. 1945	3 May 1945
George H. McKenzie	13 May 1945	13 July 1945
Glennon	14 July 1945	
Gurke	15 Feb. 1945	12 May 1945
Gyatt	15 Apr. 1945	2 July 1945
Hamner	24 Nov. 1945	
Harold J. Ellison	14 Mar. 1945	23 June 1945
Henderson	28 May 1945	4 Aug. 1945
Hollister	9 Oct. 1945	
James E. Kyes	4 Aug. 1945	
John R. Craig	14 Apr. 1945	20 Aug. 1945
Johnston	19 Oct. 1945	
Joseph P. Kennedy	25 July 1945	
Kenneth D. Bailey	17 June 1945	31 July 1945

Name	*Launched*	*Completed*
Lansdale	20 Dec. 1946	
Leonard F. Mason	4 Jan. 1946	
McKean	31 Mar. 1945	9 June 1945
Meredith	29 June 1945	
Noa	30 July 1945	
O'Hare	22 June 1945	
Orleck	12 May 1945	15 Sep. 1945
Ozbourn	25 Nov. 1945	
Perry	30 June 1945	13 Sep. 1945
Richard B. Anderson	7 July 1945	
Robert H. McCard	9 Nov. 1945	
Rowan	29 Dec. 1944	31 Mar. 1945
Rupertus	21 Sep. 1945	
Samuel B. Roberts	30 Nov. 1945	
Sarsfield	27 May 1945	31 July 1945
Seaman	20 May 1946	
Seymour D. Owens	24 Feb. 1947	
Shelton	8 Mar. 1946	
Steinaker	13 Feb. 1945	26 May 1945
Stickwell	16 June 1945	
Stribling	8 June 1945	29 Sep. 1945
Theodore E. Chandler	20 Oct. 1945	
Vogelgesang	15 Jan. 1945	28 Apr. 1945
Warrington	27 Sep. 1945	
William C. Lawe	25 Feb. 1945	
William M. Wood	29 July 1945	
William R. Rush	8 July 1945	21 Sep. 1945
Wiltsie	31 Aug. 1945	
Witek	2 Feb. 1945	
Woodrow R. Thompson	16 Mar. 1946	

PERRY. 1952, *Wright & Logan.*

KENNETH D. BAILEY. 1952, *Skyfotos.*


MEREDITH. 1952, *C. Parsons Esq.*



ROBERT H. McCARD. 1950, *U.S. Navy, Official*

Escort Destroyers (DDE).

7 Converted " Gearing " Class.

BASILONE. 1952, *U.S. Navy, Official.*

4 Consolidated Steel Corpn.

DDE
824 BASILONE
819 HOLDER
818 NEW
820 RICH

1 Federal S.B. & D.D. Co.

DDE
719 EPPERSON

1 Bath Iron Works Corpn.
847 ROBERT L. WILSON

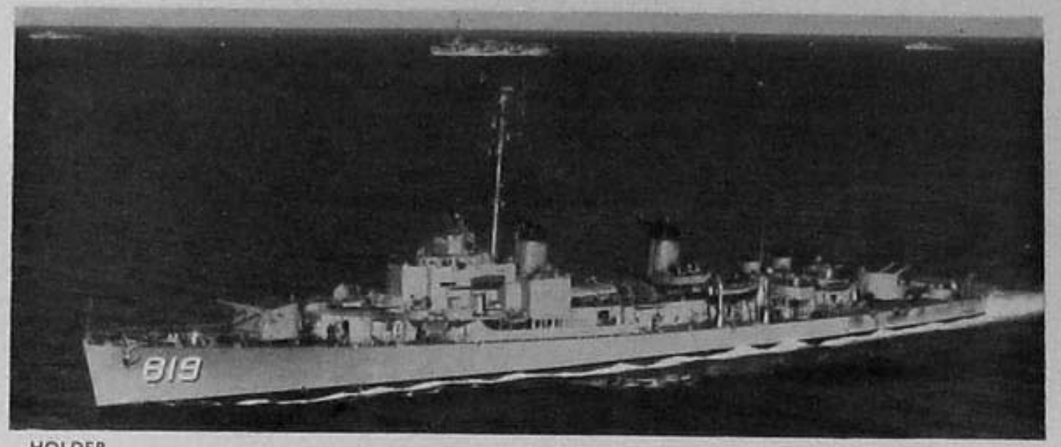
1 Bethlehem, Staten Island

DDE
871 DAMATO

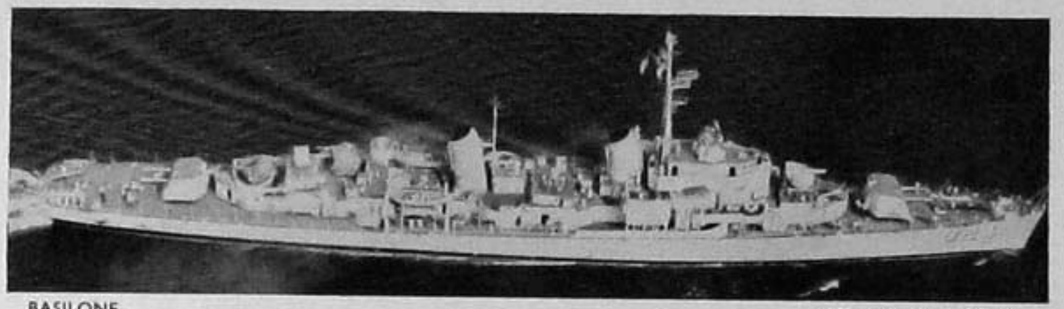
Displacement :	2,425 tons (*standard*) (3,300 tons *full load*)
Dimensions :	390½ (*o.a.*) × 40¾ × 19 (*max.*) feet
Guns :	4—5 inch, 38 cal., 4 to 10—3 inch, 50 cal.,
A/S weapons :	Ahead throwing A/S weapon in place of forward superimposed 5-inch twin turret
Tubes :	Removed
Machinery :	Geared turbines. 2 shafts. S.H.P. : 60,000 = 35 kts.
Boilers :	4
Complement :	350 (war)

Notes.—Former destroyers (DD). Builders above. *Basilone* and *Epperson*, both completed at Bath, were two long suspended units of the " Gearing " class. They were converted to ASW (for anti-submarine warfare) and completed as escort destroyers. They are armed with new weapons and equipped with improved sonar and other electronic gear. The other five units were 4-gun " Gearings " redesignated DDEs on March 4, 1950. The remaining two 4-gun "Gearings" (*Sarsfield* and *Witek*) have also been designated DDEs.

Name	*Launched*	*Completed*
Basilone	21 Dec. 1945	1950
Damato	21 Nov. 1945	26 Apr. 1946
Epperson	22 Dec. 1945	1949
Holder	25 Aug. 1945	1945
New	18 Aug. 1945	1945
Rich	5 Oct. 1945	1945
Robert L. Wilson	5 Jan. 1946	1946



HOLDER. 1953, *Skyfotos*



BASILONE. 1950, *U.S. Navy, Official.*

EPPERSON. 1949, *U.S. Navy, Official.*

Radar Picket Destroyers (DDR).
24 Converted "Gearing" Class.

VESOLE. 1950, *U.S. Navy, Official.*

13 Bath Iron Works Corpn.

DDR
807 BENNER
835 CHARLES P. CECIL
805 CHEVALIER
808 DENNIS J. BUCKLEY
830 EVERETT F. LARSON
742 FRANK KNOX
831 GOODRICH
832 HANSON

DDR
833 HERBERT J. THOMAS
806 HIGBEE
829 MYLES C. FOX
743 SOUTHERLAND
834 TURNER

11 Consolidated Steel Corpn.

681 BORDELON
874 DUNCAN

DDR
880 DYESS
828 FURSE
873 HAWKINS
875 HENRY W. TUCKER
879 LEARY
883 NEWMAN K. PERRY
877 PERKINS
876 ROGERS
878 VESOLE

Displacement : 2,425 tons (3,300 tons *full load*)
Dimensions : 390¼ (*o.a.*) × 40½ × 19 (*max.*) feet
Guns : 6—5 inch, 38 cal., 12—40 mm. AA. (or 6—3 inch, 50 cal. AA.), 4—20 mm. AA.
Machinery : Geared turbines, 2 shafts. S.H.P. : 60,000 = 35 kts.
Boilers : 4
Complement : 350 (war)

General Notes.—Builders see above. Similar to "Gearing" class. Main differences are that the torpedo tubes are removed with tripod radar mainmast in place of forward torpedo mounting. All converted from DDs to DDRs and fitted with early warning radar to serve as long-range-warning picket vessels against aircraft. 12 more units of the "Gearing" class to be converted.

Gunnery Notes.—Twin mounted 3-inch guns are replacing 40 mm. guns.

Name	*Launched*	*Completed*
Benner	20 Nov. 1944	13 Feb. 1945
Bordelon	3 Mar. 1945	5 June 1945
Charles P. Cecil	22 Apr. 1945	29 June 1945
Chevalier	29 Oct. 1944	9 Jan. 1945
Dennis J. Buckley	20 Dec. 1944	2 Mar. 1945
Duncan	27 Oct. 1944	25 Feb. 1945
Dyess	26 Jan. 1945	21 May 1945
Everett F. Larson	28 Jan. 1945	6 Apr. 1945
Frank Knox	17 Sep. 1944	11 Dec. 1944
Furse	9 Mar. 1945	10 July 1945
Goodrich	25 Feb. 1945	24 Apr. 1945
Hanson	11 Mar. 1945	11 May 1945
Hawkins	7 Oct. 1944	10 Feb. 1945
Henry W. Tucker	8 Nov. 1944	12 Mar. 1945
Herbert J. Thomas	25 Mar. 1945	29 May 1945
Higbee	12 Nov. 1944	27 Jan. 1945
Leary	20 Jan. 1945	7 May 1945
Myles C. Fox	13 Jan. 1945	20 Mar. 1945
Newman K. Perry	17 Mar. 1945	26 July 1945
Perkins	7 Dec. 1944	5 Apr. 1945
Rogers	20 Nov. 1944	26 Mar. 1945
Southerland	5 Oct. 1944	22 Dec. 1944
Turner	8 Apr. 1945	12 June 1945
Vesole	29 Dec. 1944	23 Apr. 1945

NEWMAN K. PERRY. 1953, *A. & J. Pavia.*

TURNER. *Added 1953, U.S. Navy, Official.*

DENNIS J. BUCKLEY. 1951, *Abrahams.*

Destroyers (DD)

53 "Allen M. Sumner" Class.

11 Bath Iron Works Corpn.

DD
722 BARTON
730 COLLETT
732 HYMAN
727 DE HAVEN
724 LAFFEY
729 LYMAN K. SWENSON
731 MADDOX
728 MANSFIELD
725 O'BRIEN
734 PURDY
723 WALKE

6 Bethlehem Steel Co. (S. Francisco)

761 BUCK
762 HENLEY
760 JOHN W. THOMASON
759 LOFBERG
757 PUTNAM
758 STRONG

4 Bethlehem Steel Co. (S. Pedro)

DD
857 BRISTOL
776 JAMES C. OWENS
770 LOWRY
775 WILLARD KEITH

10 Bethlehem Steel Co. (Staten Island)

752 ALFRED A. CUNNINGHAM
756 BEATTY
744 BLUE
745 BRUSH
754 FRANK E. EVANS
748 HARRY E. HUBBARD
755 JOHN A. BOLE
753 JOHN R. PIERCE
747 SAMUEL L. MOORE
746 TAUSSIG

17 Federal S.B. & D.D. Co.

DD
692 ALLEN M. SUMNER
698 AULT
704 BORIE
697 CHARLES S. SPERRY
705 COMPTON
696 ENGLISH
706 GAINARD
702 HANK
708 HARLAN R. DICKSON
700 HAYNSWORTH
709 HUGH PURVIS
694 INGRAHAM
701 JOHN W. WEEKS
693 MOALE
707 SOLEY
699 WALDRON
703 WALLACE L. LIND

5 Todd Pacific Shipyards

779 DOUGLAS H. FOX
778 MASSEY
781 ROBERT K. HUNTINGTON
780 STORMES
777 ZELLARS

Displacement :	2,200 tons (3,000 tons *full load*)
Dimensions :	376½ × 40½ × 19 (*max.*) feet
Guns :	6—5 inch, 38 cal., 6 to 10—3 inch, 50 cal. AA.
Tubes :	5—21 inch (quintupled)
A/S weapons :	2 hedgehogs mounted on deckhouse abeam bridge front, 6 D.C.T.
Machinery :	Geared turbines, 2 shafts, S.H.P. : 60,000 = 34 kts.
Boilers :	4 Babcock & Wilcox
Complement :	350 (war)

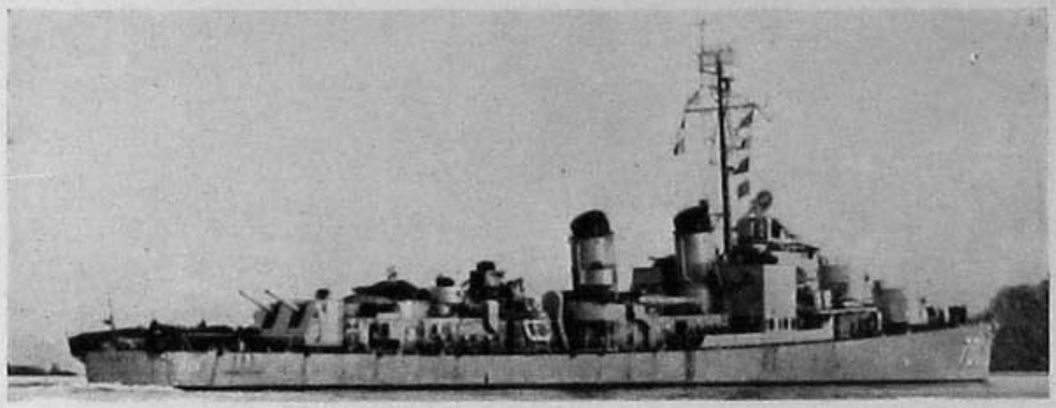
Notes.—Have a larger radius of action than any destroyers previously constructed. Type is an enlargement and modification of *Fletcher* design. After set of tubes was removed, Now have 3-inch AA. guns in place of former 40 mm. Cost reported to be $8,000,000 each, exclusive of armament, etc. *Brush* and *Mansfield* struck floating mines off Korea, Sept. 27, 1950, and Sept. 30, 1950 respectively, but made port. *Blue, Alfred A. Cunningham, Frank E. Evans* and *Harry E. Hubbard* used for A.S.W. training. Twelve of this class (two scrapped) were fitted for minelaying and re-rated as DM 23-34 (see a later page). *Hugh W. Hadley* was sold. War losses : *Cooper, Drexler, Mannert L. Abele, Meredith.*

Name	*Launched*	*Completed*
Alfred A. Cunningham	3 Aug. 1944	23 Nov. 1944
Allen M. Sumner	15 Dec. 1943	26 Jan. 1944
Ault	26 Mar. 1944	31 May 1944
Barton	10 Oct. 1943	30 Dec. 1943
Beatty	30 Nov. 1944	31 Mar. 1945
Blue	28 Nov. 1943	20 Mar. 1944
Borie	4 July 1944	21 Sep. 1944
Bristol	29 Oct. 1944	17 Mar. 1945
Brush	28 Dec. 1943	17 Apr. 1944
Buck	11 Mar. 1945	
Charles H. Sperry	13 Mar. 1944	17 May 1944
Collett	5 Mar. 1944	16 May 1944
Compton	17 Sep. 1944	4 Nov. 1944
De Haven	9 Jan. 1944	31 Mar. 1944
Douglas H. Fox	30 Sep. 1944	26 Dec. 1944
English	27 Feb. 1944	4 May 1944
Frank E. Evans	3 Oct. 1944	3 Feb. 1944
Gainard	17 Sep. 1944	23 Nov. 1944
Hank	21 May 1944	28 Aug. 1944
Harlan R. Dickson	17 Dec. 1944	17 Feb. 1945
Harry E. Hubbard	24 Mar. 1944	22 July 1944
Haynsworth	15 Apr. 1944	22 June 1944
Henley	8 Apr. 1945	
Hugh Purvis	17 Dec. 1944	1 Mar. 1945
Hyman	8 Apr. 1944	16 June 1944
Ingraham	16 Jan. 1944	10 Mar. 1944
James C. Owen	1 Oct. 1944	17 Feb. 1944

Name	*Launched*	*Completed*
John A. Boyle	1 Nov. 1944	3 Mar. 1945
John R. Pierce	1 Sep. 1944	30 Dec. 1944
John W. Thomason	29 Sep. 1944	
John W. Weeks	21 May 1944	21 July 1944
Laffey	21 Nov. 1943	
Lofberg	12 Aug. 1944	26 Apr. 1945
Lowry	6 Feb. 1944	23 July 1944
Lyman K. Swenson	12 Feb. 1944	2 May 1944
Maddox	19 Mar. 1944	2 June 1944
Mansfield	29 Jan. 1944	14 Apr. 1944
Massey	19 Aug. 1944	24 Nov. 1944
Moale	16 Jan. 1944	28 Feb. 1944
O'Brien	8 Dec. 1943	25 Feb. 1944
Purdy	7 May 1944	18 July 1944
Putnam	26 Mar. 1944	12 Oct. 1944
Robert K. Huntington	10 Dec. 1944	3 Mar. 1945
Soley	8 Sep. 1944	7 Dec. 1944
Stormes	4 Nov. 1944	27 Jan. 1945
Strong	22 Apr. 1944	8 Mar. 1945
Samuel L. Moore	23 Feb. 1944	24 June 1944
Taussig	25 Jan. 1944	20 May 1944
Waldron	26 Mar. 1944	8 June 1944
Walke	27 Oct. 1943	21 Jan. 1944
Wallace L. Lind	14 June 1944	8 Sep. 1944
Willard Keith	29 Aug. 1944	27 Dec. 1944
Zellars	19 July 1944	25 Oct. 1944

BORIE (note new 3-inch AA. guns) 1953, *Lieut. Aldo Fraccaroli.*

PURDY. 1952, *Wright & Logan.*



JOHN W. WEEKS. 1952, *Abrahams.*

Destroyers (DD).

53 Later "Fletcher" Class.

8 Bath Iron Works Corpn.

DD
650 CAPERTON
651 COGSWELL
652 INGERSOLL
653 KNAPP
691 MERTZ
690 NORMAN SCOTT
688 REMEY
689 WADLEIGH

2 Bethlehem Steel Co. (S. Francisco)

683 STOCKHAM
684 WEDDERBURN

8 Bethlehem Steel Co. (Staten Island)

796 BENHAM
657 CHARLES J. BADGER
658 COLAHAN
797 CUSHING
686 HALSEY POWELL
798 MONSSEN
685 PICKING
687 UHLMANN

5 Bethlehem Steel Co. (S. Pedro)

DD
793 CASSIN YOUNG
681 HOPEWELL
794 IRWIN
682 PORTERFIELD
795 PRESTON

3 Boston Navy Yard

662 BENNION
663 HEYWOOD L. EDWARDS
664 RICHARD P. LEARY

3 Gulf S.B. Corpn.

654 BEARSS
655 JOHN HOOD
656 VAN VALKENBURGH

4 Todd Pacific Shipyards (late Seattle-Tacoma Corpn.)

802 GREGORY
799 JARVIS
800 PORTER
804 ROOKS

2 Charleston Navy Yard

DD
649 ALBERT W. GRANT
665 BRYANT

18 Federal S.B. & D.D. Co.

666 BLACK
660 BULLARD
667 CHAUNCEY
668 CLARENCE K. BRONSON
669 COTTEN
659 DASHIELL
670 DORTCH
671 GATLING
672 HEALY
673 HICKOX
674 HUNT
661 KIDD
675 LEWIS HANCOCK
677 McDERMUT
678 McGOWAN
679 McNAIR
676 MARSHALL
680 MELVIN

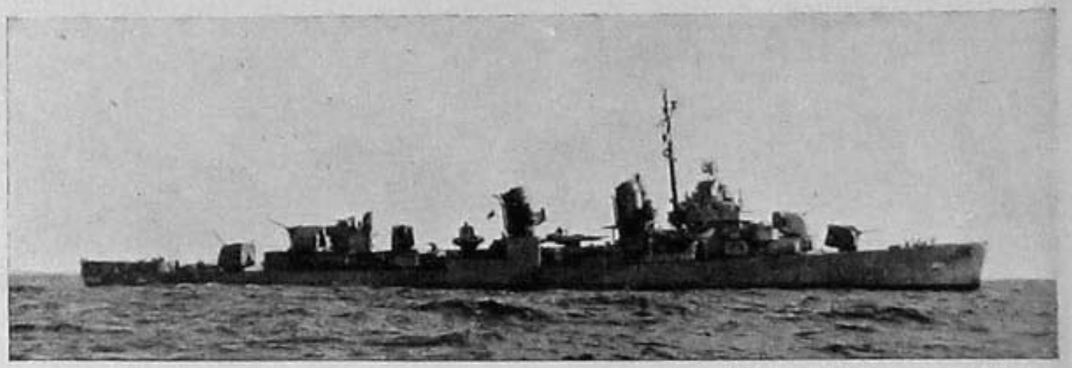
Displacement :	2,050 tons (2,750 tons *full load*)
Dimensions :	376½ (o.a.) × 39½ × 18 (max.) feet
Guns :	5—5 inch, 38 cal., 10—40 mm. AA., 8—20 mm. AA. (see Conversion Notes)
Tubes :	5—21 inch (quintupled)
Machinery :	General Electric geared turbines. 2 shafts. S.H.P. : 60,000 = 35 kts.
Boilers :	4 Babcock & Wilcox
Complement :	350 (war)

General Notes.—Laid down under 1942 Programme. Builders above. Except that they have lower fire controls and flat-faced bridges these ships are in most respects like "Fletcher" class, described on the following page. Some of the later units of *Fletcher* class are, in fact, almost indistinguishable from modified type—e.g., *Ammen*, *Sigourney*. *Dortch* was built in 158 days. War losses : *Callahan*, *Colhoun*, *Little*.

Name	*Launched*	*Completed*
Albert W. Grant	29 May 1943	24 Nov. 1943
Bearss	25 July 1943	12 Apr. 1944
Benham	29 Aug. 1943	20 Dec. 1943
Bennion	4 July 1943	14 Dec. 1943
Black	28 Mar. 1943	21 May 1943
Bullard	28 Feb. 1943	9 Apr. 1943
Bryant	29 May 1943	4 Dec. 1943
Caperton	24 July 1943	30 July 1943
Cassin Young	12 Sep. 1943	31 Dec. 1943
Charles J. Badger	3 Apr. 1943	23 July 1943
Chauncey	28 Mar. 1943	31 May 1943
Clarence K. Bronson	18 Apr. 1943	11 June 1943
Cogswell	5 June 1943	17 Aug. 1943
Colahan	2 May 1943	23 Aug. 1943
Cotten	12 June 1943	24 July 1943
Cushing	30 Sep. 1943	17 Jan. 1944
Dashiell	6 Feb. 1943	20 Mar. 1943
Dortch	20 June 1943	7 Aug. 1943
Gatling	20 June 1943	19 Aug. 1943
Gregory	8 May 1944	29 July 1944
Halsey Powell	30 June 1943	25 Oct. 1943
Healy	4 July 1943	3 Sep. 1943
Heywood L. Edwards	6 Oct. 1943	26 Jan. 1944
Hickox	4 July 1943	10 Sep. 1943
Hopewell	2 May 1943	30 Sep. 1943
Hunt	1 Aug. 1943	22 Sep 1943
Ingersoll	28 June 1943	31 Aug. 1943

Name	*Launched*	*Completed*
Irwin	31 Oct. 1943	14 Feb. 1944
Jarvis	14 Feb. 1944	3 June 1944
John Hood	23 Oct. 1943	7 June 1944
Kidd	28 Feb. 1943	23 Apr. 1944
Knapp	10 July 1943	15 Sep. 1943
Lewis Hancock	1 Aug. 1943	29 Sep. 1943
McDermut	17 Oct. 1943	19 Nov. 1943
McGowan	14 Nov. 1943	20 Dec. 1943
McNair	14 Nov. 1943	30 Dec. 1943
Marshall	29 Aug. 1943	16 Oct. 1943
Melvin	17 Oct. 1943	24 Nov. 1943
Mertz	11 Sep. 1943	19 Nov. 1943
Monssen	29 Oct. 1943	12 Feb. 1944
Norman Scott	28 Aug. 1943	5 Nov. 1943
Picking	31 May 1943	21 Sep. 1943
Porter	13 Mar. 1944	24 June 1944
Porterfield	13 June 1943	30 Oct. 1943
Preston	12 Dec. 1943	20 Mar. 1944
Remey	24 July 1943	30 Sep. 1943
Richard P. Leary	6 Oct. 1943	23 Feb. 1944
Rooks	6 June 1944	2 Sep. 1944
Stockham	25 July 1943	11 Feb. 1944
Uhlmann	30 July 1943	22 Nov. 1943
Van Valkenburgh	19 Dec. 1943	2 Aug. 1944
Wadleigh	7 Aug. 1943	19 Oct. 1943
Wedderburn	1 Aug. 1943	9 Mar. 1944

COGSWELL. 1953, *Skyfotos*.

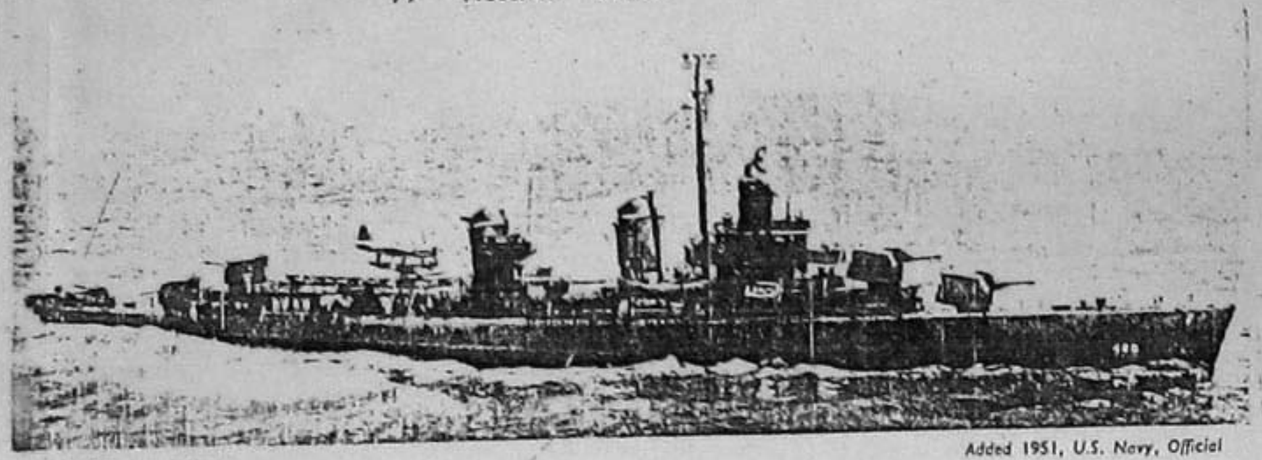


COLAHAN. 1944, *Lieut. D. Trimingham, R.N.V.R.*

Conversion Notes.—*Picking* has 4—5 inch, 6—3 inch, 5 torpedo tubes. A 3-inch director on a tall pedestal replaces 3rd 5-inch, and the forward torpedo bank has been replaced by two 3-inch AA. mounts. She has a tripod.

Destroyers (DD).

79 "Fletcher" Class.



Added 1951, U.S. Navy, Official

HALFORD. (See notes)

DD
Boston Navy Yard
11 BENNETT
41 CHARETTE
53 CONNER
74 FULLAM
77 GUEST
83 HALL
85 HARADEN
75 HUDSON

Charleston Navy Yard
87 BELL
88 BURNS
89 IZARD
90 PAUL HAMILTON
91 STANLEY
94 STEVENS

Puget Sound Navy Yard
82 HALFORD
84 HART (ex-Mansfield)
92 HOWORTH
93 KILLEN
95 METCALFE
96 SHIELDS
97 WILEY

Federal S.B. & D.D. Co.
48 LA VALLETTE
80 RINGOLD
81 SCHROEDER
82 SIGSBEE

DD
11 Bath Iron Works Corpn.
629 ABBOT
515 ANTHONY
630 BRAINE
509 CONVERSE
631 ERBEN
511 FOOTE
642 HALE
643 SIGOURNEY
644 STEMBEL
513 TERRY
516 WADSWORTH

13 Bethlehem (S. Francisco)
527 AMMEN
531 HAZELWOOD
532 HEERMAN
534 HOWORD
535 MILLER
528 MULLANY (ex-Beatty)
536 OWEN
538 STEPHEN POTTER
537 THE SULLIVANS (ex-Putnam)
539 TINGEY
530 TRATHEN
540 TWINING
541 YARNALL

4 Bethlehem (S. Pedro)
544 BOYD
545 BRADFORD
546 BROWN
547 COWELL

DD
3 Bethlehem (Staten Island)
519 DALY
520 ISHERWOOD
521 KIMBERLEY

11 Seattle-Tacoma S.B. Corpn., Seattle
554 FRANKS
556 HAILEY
558 LAWS
561 PRITCHETT
562 ROBINSON
563 ROSS
564 ROWE
565 SMALLEY
566 STODDARD
567 WATTS
568 WREN

9 Consolidated Steel Corpn., Orange, Texas
569 AULICK
570 CHARLES AUSBURN
571 CLAXTON
572 DYSON
573 HARRISON
574 JOHN RODGERS
575 McKEE
578 WICKES
580 YOUNG

3 Gulf S.B. Corpn., Chickasaw, Ala.
550 CAPPS
551 DAVID W. TAYLOR
553 JOHN D. HENLEY

Displacement :	2,050 tons standard (2,750 tons *full load*)
Dimensions :	376½ (*o.a.*) × 39½ × 12½ (*mean*), 18 (*max.*) feet
Guns :	5—5 inch, 38 cal., 6—40 mm. Bofors, 10—20 mm. Oerlikon. Rearmed ships : 4—5 inch, 38 cal., 6—3 inch, 50 cal. AA.
Tubes :	5—21 inch (quintupled)
Machinery :	General Electric geared turbines. 2 shafts. S.H.P. : 60,000 = 35 kts.
Boilers :	4 Babcock & Wilcox
Complement :	350 (war)

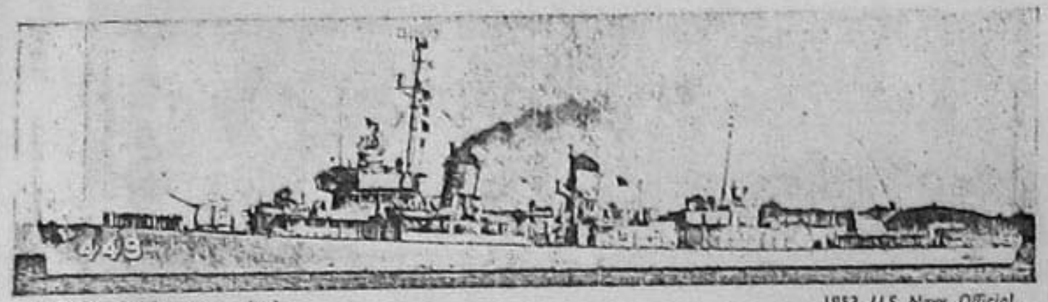
Name	Laid down	Launched	Completed
Abbot	1942	17 Feb. 1943	23 Apr. 1943
Ammen	Nov. 1941	17 Sep. 1942	12 Mar. 1943
Anthony	1942	22 Nov. 1942	26 Feb. 1943
Aulick	14 May 1941	2 Mar. 1942	27 Oct. 1942
Bell	24 Feb. 1942	24 June 1942	4 Mar. 1943
Bennett	10 Dec. 1941	16 Apr. 1942	9 Feb. 1943
Boyd		29 Oct. 1942	8 May 1943
Bradford		12 Dec. 1942	12 June 1943
Braine		7 Mar. 1943	7 May 1943
Brown	27 June 1942	22 Feb. 1943	10 July 1943
Burns	9 May 1942	8 Aug. 1942	3 Apr. 1943
Capps	July 1941	31 May 1942	23 June 1943
C. Ausburne		2 Mar. 1942	24 Nov. 1942
Charrette	20 Feb. 1941	3 June 1942	18 May 1943
Claxton	July 1941	2 Apr. 1942	8 Dec. 1942
Conner	16 Apr. 1942	18 July 1942	8 June 1943
Converse		30 Aug. 1942	20 Nov. 1942
Cowell		18 Apr. 1943	23 Aug. 1943
Daly		24 Oct. 1942	10 Mar. 1943
David W. Taylor		15 June 1942	18 Sep. 1943
Dyson	July 1941	15 Apr. 1942	30 Dec. 1942
Erben		21 Mar. 1943	28 May 1943
Foot		11 Oct. 1942	22 Dec. 1942
Franks		7 Dec. 1942	30 Sep. 1943
Fullam	10 Dec. 1941	16 Apr. 1942	2 Mar. 1943
Guest	27 Sep. 1941	20 Feb. 1942	15 Dec. 1942
Hale		4 Apr. 1943	15 June 1943
Halford	June 1941	30 Jan. 1943	10 Apr. 1943
Hall	16 Apr. 1942	18 July 1942	6 July 1943
Halley		9 Mar. 1943	30 Sep. 1943
Haraden	3 June 1942	19 Mar. 1943	16 Sep. 1943
Harrison	July 1941	4 May 1942	25 Jan. 1943
Hart		25 Sep. 1944	4 Nov. 1944
Hazelwood	12 Apr. 1942	20 Nov. 1942	18 June 1943
Heerman		5 Dec. 1942	6 July 1943
Howorth	Nov. 1941	10 Jan. 1943	3 Apr. 1944
Hudson	23 Feb. 1942	3 June 1942	13 Apr. 1943
Isherwood		24 Nov. 1942	12 Apr. 1942
Izard	9 May 1942	8 Aug. 1942	15 May 1943
John D. Henley		15 Nov. 1942	2 Feb. 1944
John Rodgers	July 1941	7 May 1942	9 Feb. 1943
Killen	Nov. 1941	10 Jan. 1943	4 May 1944
Kimberley		4 Feb. 1943	24 May 1943
La Vallette	Nov. 1941	21 June 1942	12 Aug. 1942
Laws		22 Apr. 1943	18 Nov. 1943
Metcalf		25 Sep. 1944	18 Nov. 1945
Miller	18 Aug. 1942	7 Mar. 1943	31 Aug. 1943
Mullany		10 Oct. 1942	23 Apr. 1943
McCord		Jan. 1943	19 Aug. 1943
McKee		1 Aug. 1942	31 Mar. 1943
Owen		21 Mar. 1943	20 Sep. 1943
Paul Hamilton	20 Jan. 1943	5 May 1943	25 Oct. 1943
Prichett		31 July 1943	15 Jan. 1944
Ringgold		11 Nov. 1942	24 Dec. 1942
Robinson		28 Aug. 1943	31 Jan. 1944
Ross		11 Sep. 1943	21 Feb. 1944
Rowe		30 Sep. 1943	13 Mar. 1944
Schroeder		11 Nov. 1942	1 Jan. 1943
Shields		4 Dec. 1944	8 Feb. 1945
Sigourney		24 Apr. 1943	29 June 1943
Sigsby		7 Dec. 1942	23 Jan. 1943
Smalley		27 Oct. 1943	31 Mar. 1944
Stanley	30 Dec. 1941	2 May 1942	15 Oct. 1942
Stembel		8 May 1943	16 July 1943
Stephen Potter		28 Apr. 1943	21 Oct. 1943
Stevens	30 Dec. 1941	24 June 1942	1 Feb. 1943
Stoddard		19 Nov. 1943	15 Apr. 1944
Terry		22 Nov. 1942	26 Jan. 1943
The Sullivans		4 Apr. 1943	30 Sept. 1943
Tingey		28 May 1943	25 Nov. 1943
Trathen	17 Jan. 1942	21 Oct. 1942	28 May 1943
Twining		11 July 1942	1 Dec. 1943
Wadsworth		10 Jan. 1943	16 Mar. 1943
Watts		31 Dec. 1943	29 Apr. 1944
Wickes		13 Sep. 1942	16 June 1943
Wiley		25 Sep. 1944	22 Feb. 1945
Wren		29 Jan. 1944	20 May 1944
Yarnall		25 July 1943	30 Dec. 1943
Young		11 Oct. 1942	31 July 1943

General Notes.—Laid down under 1940-41 Programme. Builders above. During the war six units (including *Halford* in 1943—see photo.) were experimentally fitted with a seaplane and catapult, in place of deckhouse between "Q" and "X" turrets (armament being temporarily reduced by 1—5 inch and 5 T.T.); and some, including *Young*, had only one set of tubes. All those with two sets now reduced to one. Eighteen of these ships were modified for duty as escort destroyers (DDE), viz.: *Boche, Beale, Conway, Cony, Eaton, Fletcher, Jenkins, Murray, Nicholas, O'Bannon, Philip, Radford, Renshaw, Saufley, Sproston, Taylor, Walker* and *Waller*—see next page. War losses: *Abner Read, Brownson, Bush, Chevalier, De Haven, Halligan, Hoel, Johnston, Longshaw, Luce, Morrison, Pringle, Spence, Strong, Twiggs, William D. Porter*. Heavily damaged and subsequently scrapped. *Evans, Hoggard, Leutze, Newcomb, Thatcher*, Sold.: *Hutchins*. Cancelled: *Percival, Watson*.

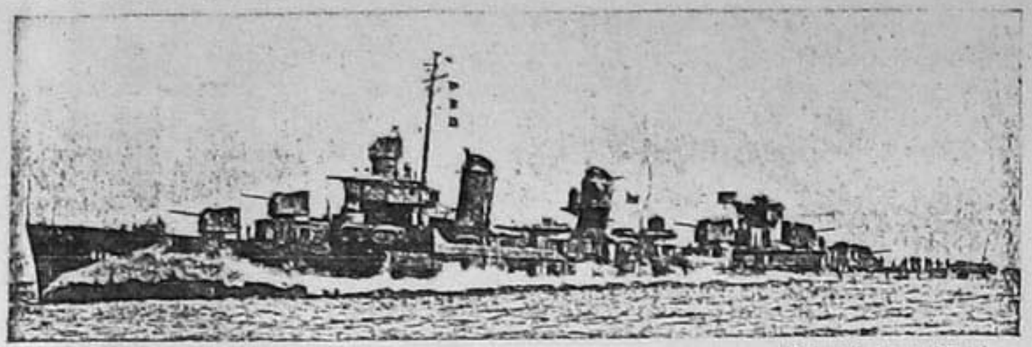
Appearance Notes.—All Bethlehem-built ships of this class have flat-sided funnels.

Escort Destroyers (DDE).

18 Converted "Fletcher" Class.



NICHOLAS (after conversion). 1953, *U.S. Navy, Official.*



NICOLAS (before conversion) 1943, *U.S. Navy, Official.*

7 Bath Iron Works Corpn.
DDE
507 CONWAY
508 CONY
510 EATON
449 NICHOLAS
450 O'BANNON
468 TAYLOR
517 WALKER

2 Bethlehem (Staten Island)
DDE
470 BACHE
471 BEALE

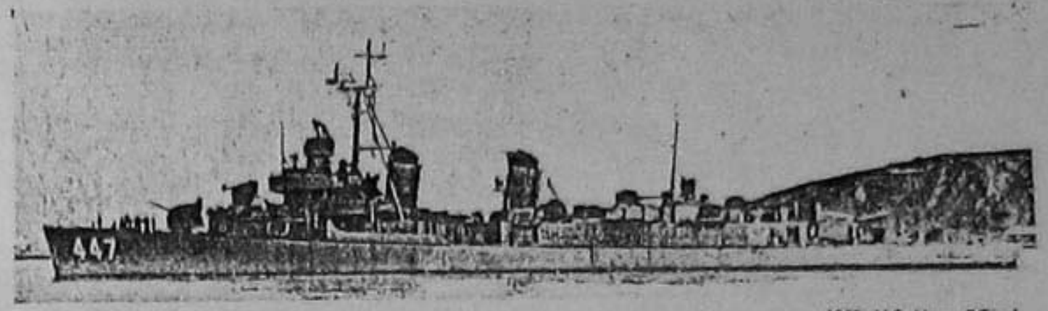
2 Consolidated Steel Corpn., Orange, Texas
576 MURRAY
577 SPROSTON

7 Federal S.B. & D.D. Co.
DDE
445 FLETCHER
447 JENKINS
498 PHILIP
446 RADFORD
499 RENSHAW
465 SAUFLEY
466 WALLER

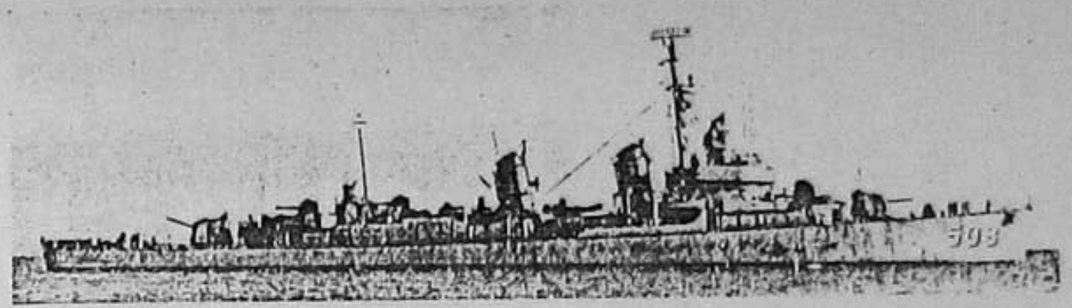
Displacement :	2,050 tons *standard* (2,940 tons *full load*)
Dimensions :	376½ (*o.a.*) × 39½ × 18 (*max.*) feet
Guns :	2 —5 inch, 38 cal., 4—3 inch, 50 cal. in twin mountings
Tubes :	5—21 inch (quintupled)
A/S weapons :	1 ahead throwing rocket launcher in place of "B" turret.
Machinery :	G.E. geared turbines. 2 shafts. S.H.P. : 60,000 = 35 kts.
Boilers :	4 Babcock & Wilcox
Complement :	300 (war)

General Notes.—Former destroyers (DD). Converted to serve as close-support convoy escorts. 9 under 1948 Programme, 3 under 1949, and 6 under 1950 Programme. Anthony, DD 515, was also to have been converted, but is still a DD (see preceding page). Others may be converted later.

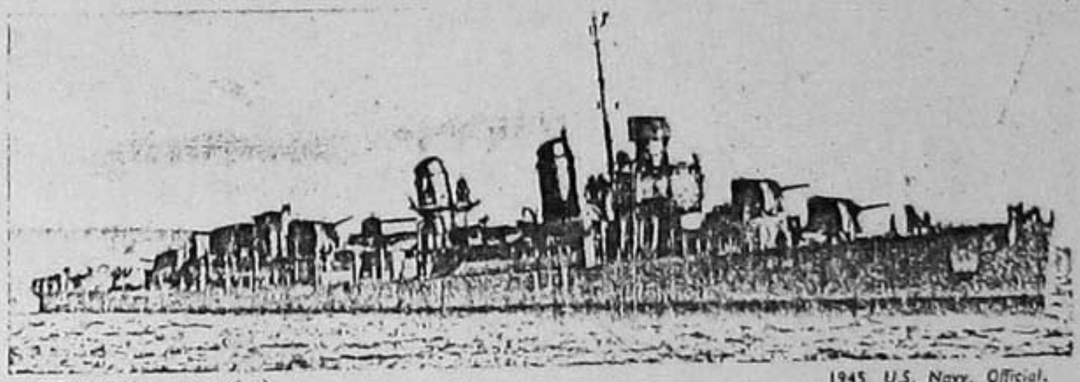
Name	*Laid down*	*Launched*	*Completed*
Bache	19 Nov. 1941	27 June 1942	14 Nov. 1942
Beale	19 Dec. 1941	25 Aug. 1942	23 Dec. 1942
Conway	1942	16 Aug. 1942	9 Oct. 1942
Cony	1942	16 Aug. 1942	30 Oct. 1942
Eaton	1942	20 Sep. 1942	4 Dec. 1942
Fletcher	Oct. 1941	3 May 1942	30 June 1942
Jenkins	Nov. 1941	21 June 1942	31 July 1942
Murray	1941	16 Aug. 1942	20 Apr. 1943
Nicholas	3 Mar. 1942	19 Feb. 1942	4 June 1942
O'Bannon	3 Mar. 1941	14 Mar. 1942	26 June 1942
Philip	1942	13 Oct. 1942	21 Nov. 1942
Radford	Oct. 1941	3 May 1942	22 July 1942
Renshaw	1942	13 Oct. 1942	5 Dec. 1942
Sauffley	Dec. 1941	19 July 1942	29 Aug. 1942
Sproston			19 May 1943
Taylor	Nov. 1941	7 June 1942	29 Aug. 1942
Walker	1942	31 Jan. 1943	3 Apr. 1943
Waller	Jan. 1942	15 Aug. 1942	1 Oct. 1942



JENKINS. 1952, *U.S. Navy, Official.*



CONY (after conversion). 1952, *U.S. Navy, Official.*



CONY (before conversion) 1945, *U.S. Navy, Official.*

Destroyers (DD).

22 " Gleaves " Class.

WOOLSEY. *Added 1950, U.S. Navy, Official*

4 Bath Iron Works Corpn.

DD
423 GLEAVES
429 LIVERMORE *(ex-Grayson)*
424 NIBLACK
437 WOOLSEY

1 Boston Navy Yard
441 WILKES

3 Charleston Navy Yard
435 GRAYSON
443 SWANSON
641 TILMAN

9 Federal S.B. & D.D. Co.

DD
439 EDISON
619 EDWARDS
440 ERICSSON
432 KEARNEY
623 NELSON
431 PLUNKETT
645 STEVENSON
646 STOCKTON
647 THORN

1 Norfolk Navy Yard

DD
638 HERNDON

4 Seattle-Tacoma S.B. Corpn., Seattle
624 BALDWIN
497 FRANKFORD
626 SATTERLEE
628 WELLES

Displacement :	1,630 tons *standard* (2,450 tons *full load*)
Dimensions :	341 (*w.l.*) 348¼ (*o.a.*) × 36 × 10 feet
Guns :	4—5 inch, 38 cal., 4—40 mm. Bofors, 7—20 mm. Oerlikon
Tubes :	5—21 inch
Machinery :	General Electric geared turbines. 2 shafts. S.H.P. : 50,000 = 37 kts.
Boilers :	4 Babcock & Wilcox
Complement :	250 (war)

General Notes.—Laid down under the 1940-41 Programme. Cost averages $3,814,000 per ship, inclusive. *Carmick, Cowie, Davison, Doran, Doyle, Earle, Ellyson, Endicott, Fitch, Gherardi, Hambleton, Jeffers, Knight, McCook, Macomb, Mervine, Quick, Rodman, Thompson,* were fitted out as Fast Minesweepers and will be found on a later page. War losses: *Aaron Ward, Beatty, Bristol, Corry, Duncan, Glennon, Gwin, Ingraham, Maddox, Meredith, Monssen, Turner.* In addition, *Shubrick* was so badly damaged that she was scrapped. Most of remaining ships are laid up in reserve. *Buchanan* and *McCalla* transferred to Turkey 1949, *Lansdowne* and *Lardner* 1950. *Eberle* and *Ludlow* transferred to Greece 1951. *Nicholson* transferred to Italy 1951.

Appearance Note.—Seattle-built ships of this class have square-faced bridges with director on bridge instead of mounted on a pedestal.

Name	*Laid down*	*Launched*	*Completed*
Baldwin	16 July 1941	1 June 1942	30 Apr. 1943
Edison	18 Mar. 1940	23 Nov. 1940	30 Jan. 1941
Edwards	1941	19 July 1942	18 Sep. 1942
Ericsson	18 Mar. 1940	23 Nov. 1940	11 Mar. 1941
Frankford	June 1941	16 May 1942	31 Mar. 1943
Grayson	17 July 1939	7 Aug. 1940	15 Apr. 1941
Gleaves	16 May 1938	9 Dec. 1939	May 1940
Herndon	26 Aug. 1941	5 Feb. 1942	20 Dec. 1942
Kearney	1 Mar. 1939	9 Mar. 1940	13 Sep. 1940
Livermore	6 Mar. 1939	3 Aug. 1940	7 Oct. 1940
Nelson	1942	15 Sep. 1942	26 Nov. 1942
Niblack	8 Aug. 1938	18 May 1940	1 Aug. 1940
Plunkett	1 Mar. 1939	9 Mar. 1940	16 July 1940
Satterlee	1941	17 July 1942	1 July 1943
Stevenson	1942	11 Nov. 1942	15 Dec. 1942
Stockton	1942	11 Nov. 1942	11 Jan. 1943
Swanson	15 Nov. 1939	2 Nov. 1940	1941
Thorn	1942	28 Feb. 1943	1 Apr. 1943
Tillman	8 Sep. 1941	20 Dec. 1941	4 June 1942
Welles	1942	7 Sep. 1942	16 Aug. 1943
Wilkes	1 Nov. 1939	31 May 1940	1941
Woolsey	9 Oct. 1939	12 Feb. 1940	1941

Destroyers (DD).

26 " Benson " Class.

CALDWELL. *1951, U.S. Navy, Official.*

7 Bethlehem (Quincy

DD
598 BANCROFT
421 BENSON
600 BOYLE
601 CHAMPLIN
422 MAYO
616 NIELDS
617 ORDRONAUX

4 Bethlehem (S. Pedro)
612 KENDRICK
613 LAUB
614 MACKENZIE
615 McLANAHAN

Bethlehem (S. Francisco)

DD
605 CALDWELL
606 COGHLAN
607 FRAZIER
608 GANSEVOORT
609 GILLESPIE
610 HOBBY
611 KALK

1 Boston Navy Yard
425 MADISON

5 Bethlehem (Staten Island)

DD
492 BAILEY
491 BARENHOLT
602 MEADE
603 MURPHY
604 PARKER

1 Philadelphia Navy Yard
427 HILARY P. JONES

1 Puget Sound Navy Yard
428 CHARLES F. HUGHES

Displacement	1,620 tons (2,450 tons *full load*)
Dimensions :	348¼ (*o.a.*) × 35½ × 18 (*max.*) feet
Guns :	4—5 inch, 38 cal., etc.
Tubes :	5—21 inch (quintupled) see notes.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 50,000 = 37 kts.
Boilers :	4 high pressure
Complement :	250

General Notes.—Built to the design of the Bethlehem Steel Co. War losses: *Barton, Laffey, Landsdale.* *Woodworth* transferred to Italy 1951

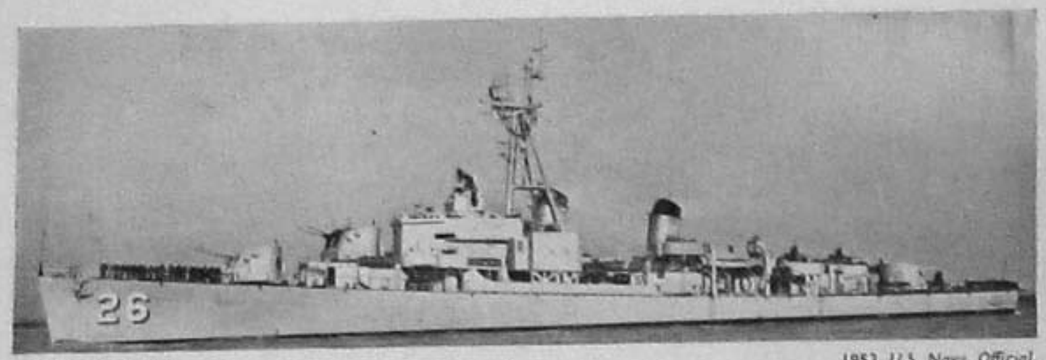
Appearance Notes.—All " Benson " class DDs have flat-sided funnels. Reported some still have 10 torpedo tubes. Others have none.

Name	*Laid down*	*Launched*	*Completed*
Bailey	29 Jan. 1941	19 Dec. 1941	11 May 1942
Bancroft	20 May 1941	31 Dec. 1941	30 Apr. 1942
Benson	16 May 1938	15 Nov. 1939	25 July 1940
Boyle	1941	14 June 1942	15 Aug. 1942
Caldwell	24 Mar. 1941	15 Jan. 1942	10 June 1942
Champlin	1941	25 July 1942	12 Sep. 1942
Charles F. Hughes	3 Jan. 1939	16 May 1940	Dec. 1940
Coghlan	28 Mar. 1941	16 Feb. 1942	10 July 1942
Farenholt	11 Dec. 1940	19 Nov. 1941	2 Apr. 1942
Frazier	June 1941	17 Mar. 1942	30 July 1942
Gansevoort	June 1941	11 Apr. 1942	25 Aug. 1942
Gillespie	June 1941	8 May 1942	18 Sep. 1942
Hilary P. Jones	16 Nov. 1938	14 Dec. 1939	Dec. 1940
Hobby	June 1941	4 June 1942	18 Nov. 1942
Kalk	June 1941	15 June 1942	17 Oct. 1942
Kendrick	1 May 1941	2 Apr. 1942	12 Sep. 1942
Laub	1 May 1941	1 June 1942	24 Oct. 1942
McLanahan	1941	7 Sep. 1942	19 Dec. 1942
Mackenzie	1 May 1941	27 June 1942	21 Nov. 1942
Madison	19 Dec. 1938	20 Oct. 1939	Dec. 1940
Mayo	16 May 1938	26 Mar. 1940	18 Sep. 1940
Meade	25 Mar. 1941	15 Feb. 1942	22 June 1942
Murphy	May 1941	29 Apr. 1942	27 July 1942
Nields	1942	1 Oct. 1942	15 Jan. 1943
Ordronaux	1942	9 Nov. 1942	13 Feb. 1943
Parker	June 1941	12 May 1942	31 Aug. 1942

U.S.A.—FastMinelayers, Fast Minesweepers (Modified Destroyers)

Fast Light Minelayers (DM).

10 " Smith " Class.



HARRY F. BAUER. 1953, *U.S. Navy, Official.*

SHEA. 1953, *P. Sweeney.*

DM	DM	DM
27 ADAMS	32 LINDSEY	30 SHEA
33 GWIN	23 ROBERT H. SMITH	24 THOMAS E. FRASER
26 HARRY F. BAUER	25 SHANNON	28 TOLMAN
29 HENRY A. WILEY		

Displacement :	2,200 tons (3,000 tons *full load*)
Dimensions :	376½ × 41 × 12½ (*mean*) 19 (*max.*) feet
Guns :	6—5 inch, 38 cal., 12—40 mm. AA., 11—20 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 60,000 = 34 kts.
Boilers :	4 Babcock & Wilcox
Complement :	350

Notes.—Modified Destroyers of "Allen M. Sumner " class. DM 23-28 built by Bath Iron Works, DM 29, 30 by Bethlehem Steel Co. Staten Island, N.Y., and DN 32-33 by Bethlehem Steel Co., San Pedro, California. Being fitted with tripod masts. *J. Wm. Ditter* DM 31, and *Aaron Ward*, DM 24, scrapped.

Name	*Launched*	*Completed*	*Name*	*Launched*	*Completed*
Adams	23 July 1944	10 Oct. 1944	*Robert H. Smith*	25 May 1944	4 Aug. 1944
Gwin	9 Apr. 1944	30 Sep. 1944	*Shannon*	24 June 1944	8 Sep. 1944
Harry F. Bauer	9 July 1944	22 Sep. 1944	*Shea*	20 May 1944	30 Sep. 1944
Henry A. Wiley	21 Apr. 1944	31 Aug. 1944	*Thomas E. Fraser*	10 June 1944	22 Aug. 1944
Lindsey	5 Mar. 1944	20 Aug. 1944	*Tolman*	13 Aug. 1944	27 Oct. 1944

Large High-Speed Minesweepers (DMS).

19 " Ellyson " Class.

FITCH. 1952, *Harvey Gilston, Esq.*

RODMAN. 1951, *U.S. Navy, Official.*

DMS	DMS	DMS
33 CARMICK	19 ELLYSON	40 KNIGHT
39 COWIE	35 ENDICOTT	36 McCOOK
37 DAVIDSON	25 FITCH	23 MACOMB
41 DORAN	30 GHERARDI	31 MERVINE
34 DOYLE	20 HAMBLETON	32 QUICK
42 EARLE	27 JEFFERS	21 RODMAN
		38 THOMPSON

Displacement :	1,630 tons (2,755 tons *full load*)
Dimensions :	341 (*w.l.*), 348½ (*o.a.*) × 36 × 10 (*mean*) 18 (*max.*) feet
Guns :	3—5 inch, 38 cal., 4—40 mm. AA., 4 to 5—20 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 50,000 = 37 kts.
Boilers :	4 Babcock & Wilcox
Complement :	250

Notes.—Modified Destroyers of " Gleaves " class. DMS 19-21, 27, 37 built by Federal S.B. & D.D. Co., DMS 23 built by Bath Iron Works. DMS 25, 39-42 by Boston Navy Yard, DMS 31-36, 38 by Seattle-Tacoma S.B. Corpn. *Butler, Forrest* and *Harding* scrapped. *Hobson*, DMS 26, sank in mid-Atlantic, 27 April, 1952, after collision with the aircraft carrier *Wasp* during a night exercise. Second World War loss: *Emmons*.

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Carmick	29 May 1941	8 Mar. 1942	28 Dec. 1942	*Hambleton*	16 Dec. 1940	26 Sep. 1941	22 Dec. 1941
Cowie	18 Mar. 1941	27 Sep. 1941	1 June 1942	*Jeffers*		26 Aug. 1942	5 Nov. 1942
Davidson		19 July 1942	11 Sep. 1942	*Knight*	18 Mar. 1941	27 Sep. 1941	23 June 1942
Doran	14 June 1941	10 Dec. 1941	4 Aug. 1942	*McCook*	1 May 1941	3 May 1942	15 Mar. 1943
Doyle	29 May 1941	17 Mar. 1942	27 Jan. 1943	*Macomb*	3 Sep. 1940	22 Sep. 1941	26 Jan. 1942
Earle	14 June 1941	10 Dec. 1941	1 Sep. 1942	*Mervine*	Sep. 1941	3 May 1942	17 June 1942
Ellyson	2 Dec. 1940	25 July 1941	28 Nov. 1941	*Quick*	Sep. 1941	3 May 1942	3 July 1942
Endicott	1 May 1941	5 Apr. 1942	25 Feb. 1943	*Rodman*	16 Dec. 1940	26 Sep. 1941	27 Jan. 1942
Fitch	6 Jan. 1941	14 June 1941	3 Feb. 1942	*Thompson*		10 Aug. 1942	10 July 1943
Gherardi	16 Sep. 1941	12 Feb. 1942	15 Sep. 1942				

Rated as **Escort Vessels** (DE).

General Notes.—Former Destroyer Escorts are now officially grouped under the generic heading of Patrol Vessels with the specific classification of Escort Vessels, but they approximate to the Frigate category in British and other navies.

3 Ocean Escort (A/S Frigate) Type. *New Construction.*

3 Bath Iron Works

DE	**DE**	**DE**
1006 DEALEY	**1014 CROMWELL**	**1015 HAMMERBERG**

Displacement : 1,450 tons *standard* (1,917 tons *trial* displacement)
Dimensions : 314½ × 36½ × 14 feet

Notes.—*Dealey* laid down 15 Oct. 1952, officially described as prototype for new and modern anti-submarine vessels. The first estimated cost was $15,000,000 per vessel. To be lavishly equipped with electronic gear. Two (DE 1014, 1015) provided under 1952-53 programme. Designed specifically for fast convoy work and will be constructed in such a manner that in the event of war similar DEs could be built rapidly.

20 " Rudderow " Class.

RUDDEROW. 1944, *U.S. Navy, Official.*

11 Bethlehem-Hingham

DE	**581 McNULTY**
584 CHARLES J. KIMMEL	**582 METIVIER**
585 DANIEL A. JOY	**588 PEIFFER**
583 GEORGE A. JOHNSON	**579 RILEY**
580 LESLIE L. B. KNOX	**587 THOMAS F. NICKEL**
586 LOUGH	**589 TINSMAN**

3 Bethlehem, Quincy

DE
685 COATES
684 DE LONG
686 EUGENE E. ELMORE

1 Charleston Navy Yard
231 HODGES

3 Defoe Co.
706 HOLT
707 JOBB
708 PARLE

2 Philadelphia Navy Yard
225 DAY
224 RUDDEROW

Displacement : 1,450 tons *standard* (2,230 tons *full load*)
Dimensions : 306 (*o.a.*) × 36½ × 14 (*max.*) feet
Guns : 2—5 inch, 38 cal., 2—40 mm., 6—20 mm.
Machinery : Turbo-electric propulsion. 2 shafts. S.H.P. : 12,000 = 24 kts.
Complement : 220 (war)

Notes.—62 ships of this type were built. Originally rated as Destroyer Escorts (DE) but now grouped under Patrol Vessels (Escort Vessels). *Chaffee* (DE 230) scrapped. DE 226-229, 232-237, 590-606, 687-692, 710-722 were converted into Fast Transports (APD).

Name	*Launched*	*Completed*	*Name*	*Launched*	*Completed*
Charles H. Kimmel	15 Jan. 1944	20 Apr. 1944	*Leslie L. B. Knox*	8 Jan. 1944	22 Mar. 1944
Coates	9 Dec. 1943	24 Jan. 1944	*Lough*	22 Jan. 1944	2 May 1944
Daniel A. Joy	15 Jan. 1944	28 Apr. 1944	*McNulty*	8 Jan. 1944	31 Mar. 1944
De Long	23 Nov. 1943	31 Dec. 1943	*Metivier*	12 Jan. 1944	7 Apr. 1944
Day	14 Oct. 1943	10 June 1944	*Parle*	25 Mar. 1944	29 July 1944
Eugene E. Elmore	23 Dec. 1943	4 Feb. 1944	*Peiffer*	26 Jan. 1944	15 June 1944
George A. Johnson	21 Jan. 1944	15 Apr. 1944	*Riley*		13 Mar. 1944
Hodges	9 Dec. 1943	27 May 1944	*Rudderow*	14 Oct. 1943	15 May 1944
Holt	15 Dec. 1943	9 June 1944	*Thomas F. Nickel*	22 Jan. 1944	9 June 1944
Jobb	4 Mar. 1944	4 July 1944	*Tinsman*	29 Jan. 1944	26 June 1944

Rated as **Escort Vessels** (DE).

27 " Bostwick " Class.

EARL K. OLSEN. 1953, *U.S. Navy, Official.*

5 Tampa S.B. Co.

DE
765 EARL K. OLSEN
770 MUIR
769 NEAL A. SCOTT
767 OSWALD
771 SUTTON

8 Western Pipe & Steel Co.

DE
746 HEMMINGER
742 HILBERT
743 LAMONS
744 KYNE
750 McCLELLAND
749 ROBERTS
745 SNYDER
748 TILLS

14 Federal S.B. & D.D. Co., Port Newark

DE

167 ACREE	**162 LEVY**
168 AMICK	**163 McCONNELL**
169 ATHERTON	**176 MICKA**
170 BOOTH	**164 OSTERHAUS**
171 CARROL	**165 PARKS**
191 COFFMAN	**181 STRAUB**
172 COONER	**180 TRUMPETER**

Displacement : 1,250 tons (1,900 tons *full load*)
Dimensions : 306 (*o.a.*) × 36½ × 10½ (*mean*) 12 (*max*). feet
Guns : 3—3 inch, 50 cal,. d.p., 2—40 mm. AA., 4—20 mm. AA. and D.C.T.
Tubes : 3—21 inch, in triple mount (some have had torpedo tubes removed)
Machinery : Diesel-electric. 2 shafts. B.H.P. : 6,000 = 20 kts. sea speed
Complement : 220

Class Notes.—Eight ships of this class, originally rated as Destroyer Escorts (DE), were transferred to Brazilian Navy, four to Chinese Navy, and 14 to French Navy. *Ebert* (768), *Eldridge* (173), *Garfield Thomas* (193), and *Slater* (766) transferred to Greece 1951. *Gandy* (764), *Thornhill* (145) and *Wesson* (184) transferred to Italy 1951. *Bangust* (739), *Waterman* (740), and *Weaver* (741) transferred to Peru in 1952, and *Baron* (166) and *Bronstein* (189) transferred to Uruguay 1951.

Name	*Launched*	*Completed*	*Name*	*Launched*	*Completed*
Acree	9 May 1943	19 July 1943	*McConnell*	28 Mar. 1943	28 May 1943
Amick	26 May 1943	26 July 1943	*Micka*	22 Aug. 1943	23 Sep. 1943
Atherton	26 May 1943	29 Aug. 1943	*Muir*	4 June 1944	30 Aug. 1944
Booth	21 June 1943	19 Sep. 1943	*Neal A. Scott*	4 June 1944	31 July 1944
Carroll	21 June 1943	24 Oct. 1943	*Osterhaus*	18 Apr. 1943	12 June 1943
Coffman	28 Nov. 1943	27 Dec. 1943	*Oswald*	25 Apr. 1944	12 June 1944
Cooner	25 July 1943	21 Aug. 1943	*Parks*	18 Apr. 1943	22 June 1943
Earl K. Olsen	13 Feb. 1944	10 Apr. 1944	*Roberts*	14 Nov. 1943	2 Sep. 1944
Hemminger	12 Sep. 1943	30 May 1944	*Snyder*	29 Aug. 1943	5 May 1944
Hilbert	18 July 1943	4 Feb. 1944	*Straub*	18 Sep. 1943	25 Oct. 1943
Kyne	15 Aug. 1943	4 Apr. 1944	*Sutton*	6 Aug. 1944	22 Dec. 1944
Lamons	1 Aug. 1943	29 Feb. 1944			
Levy	28 Mar. 1943	13 May, 1943	*Tills*	3 Oct. 1943	8 Aug. 1944
McClelland	28 Nov. 1944	19 Sep. 1944	*Trumpeter*	18 Sep. 1943	25 Oct. 1943

Special Note.—The following vessels (DE) were formerly on the list of ships to be disposed of. They were removed from that list in 1952 and put back in the reserve Fleet : *Acree* (167), *Amick* (168), *Atherton* (169), *Booth* (170), *Carroll* (171), *Coffman* (191) *Cooner* (172), *Hilbert* (742), *Lamons* (743), *Levy* (162), *McConnell* (163), *Micka* (176), *Neal A. Scott* (769), *Osterhaus* (164), *Oswald* (767) *Parks* (165), *Straub* (181), and *Trumpeter* (180).

Rated as **Escort Vessels** (DE).

77 + 2 " John C. Butler " Class.

GRADY (foreground) and CHARLES E. BRANNON.

Added 1952, Official United States Navy Photo.

10 *Boston Navy Yard*

DE
536 BIVIN
531 EDWARD H. ALLEN
533 HOWARD F. CLARK
A/S 535 LEWIS
538 OSBERG
537 RIZZI
534 SILVERSTEIN
A/S 532 TWEEDY
*540 VANDIVIER
*539 WAGNER

20 *Brown S.B. Co., Houston*

421 CHESTER T. O'BRIEN
405 DENNIS
422 DOUGLAS A. MUNRO
423 DUFILHO
406 EDMONDS
424 HAAS
410 JACK MILLER
409 LA PRADE
415 LAWRENCE C. TAYLOR
420 LELAND E. THOMAS
414 LE RAY WILSON
416 MELVIN R. NAWMAN
417 OLIVER MITCHELL
403 RICHARD M. ROWELL
402 RICHARD S. BULL

DE
419 ROBERT F. KELLER
411 STAFFORD
408 STRAUS
418 TABBERER
412 WALTER C. WANN

33 *Consolidated Steel Corpn., Orange*

343 ABERCROMBIE
366 ALVIN C. COCKRELL
368 CECIL J. DOYLE
353 DOYLE C. BARNES
346 EDWIN A. HOWARD
367 FRENCH
349 GENTRY
357 GEORGE E. DAVIS
355 JACCARD
347 JESSE RUTHERFORD
339 JOHN C. BUTLER
370 JOHN L. WILLIAMSON
360 JOHNNIE HUTCHINS
354 KENNETH M. WILLETT
348 KEY
356 LLOYD E. ACREE
365 McGINTY
358 MACK
351 MAURICE J. MANUEL
352 NAIFEH
340 O'FLAHERTY
363 PRATT

DE
371 PRESLEY
341 RAYMOND
342 RICHARD W. SUESENS
345 ROBERT BRAZIER
362 ROLF
364 ROMBACH
369 THADDEUS PARKER
350 TRAW
361 WALTON
372 WILLIAMS
359 WOODSON

16 *Federal S.B. & D.D. Co., Port Newark*

447 ALBERT T. HARRIS
446 CHARLES E. BRANNON
439 CONKLIN
438 CORBESIER
448 CROSS
509 FROMOE
508 GILLIGAN
444 GOSS
445 GRADY
449 HANNA
510 HEYLIGER
443 KENDAL C. CAMPBELL
450 JOSEPH E. CONNOLLY
440 McCOY REYNOLDS
442 ULVERT M. MOORE
441 WILLIAM SEIVERLING

Displacement :	1,350 tons (2,100 tons *full load*)
Dimensions :	306 (*o.a.*) × 36½ × 11 (*max.*) feet
Guns :	2—5 inch, 38 cal., 2—40 mm. AA., 6—20 mm. AA., and D.C.T.
Tubes :	Removed
Machinery :	Geared turbines. 2 shafts. S.H.P. : 12,000 = 24 kts.
Complement :	220 (war)

Name	*Launched*	*Completed*
Abercrombie	14 Jan. 1944	1 May 1944
Albert T. Harris	16 Apr. 1944	29 Nov. 1944
Alvin C. Cockrell	8 Aug. 1944	7 Oct. 1944
Bivin	7 Dec. 1943	31 Oct. 1944
Cecil J. Doyle	1 July 1944	16 Oct. 1944
Charles E. Brannon	23 Apr. 1944	1 Nov. 1944
Chester T. O'Brien	29 Feb. 1944	3 July 1944
Conklin	13 Feb. 1944	21 Apr. 1944
Corbesier	13 Feb. 1944	31 Mar. 1944
Cross	4 July 1944	8 Jan. 1945
Dennis	4 Dec. 1943	20 Mar. 1944
Douglas A. Munro	8 Mar. 1944	11 July 1945
Doyle C. Barnes		13 July 1944
Dufilho	9 Mar. 1944	21 July 1944
Edmonds	17 Dec. 1943	3 Apr. 1944
Edward H. Allen	17 Oct. 1943	16 Dec. 1943
Edwin A. Howard	25 Jan. 1944	25 May 1944
Formoe	2 Apr. 1944	5 Oct. 1944
French	17 June 1944	9 Oct. 1944
Gentry	15 Feb. 1944	14 June 1944
George E. Davis	8 Apr. 1944	11 Aug. 1944
Gilligan	22 Feb. 1944	12 May 1944
Goss	19 Mar. 1944	26 Aug. 1944
Grady	2 Apr. 1944	11 Sep. 1944
Haas	20 Mar. 1944	2 Aug. 1944
Hanna	4 July 1944	27 Jan. 1945
Howard F. Clark	8 Nov. 1943	25 May 1944
Heyliger	6 Aug. 1944	24 Mar. 1945
Jaccard	18 Mar. 1944	26 July 1944
Jack Miller	10 Jan. 1944	13 Apr. 1944
Jesse Rutherford	29 Jan. 1944	31 May 1944
John C. Butler	11 Dec. 1943	31 Mar. 1944
John L. Williamson	29 Aug. 1944	31 Oct. 1944
Johnnie Hutchins	2 May 1944	28 Aug. 1944
Joseph E. Connolly	6 Aug. 1944	28 Feb. 1945
Kendall C. Campbell	19 Mar. 1944	31 July 1944
Kenneth M. Willett	7 May 1944	19 July 1944
Key	12 Feb. 1944	5 June 1944
La Prade	31 Dec. 1943	20 Apr. 1944
Lawrence C. Taylor	29 Jan. 1944	13 May 1944
Le Roy Wilson	28 Jan. 1944	10 May 1944
Leland E. Thomas	28 Feb. 1944	19 June 1944
Lewis	7 Dec. 1943	5 Sep. 1944
Lloyd E. Acree	21 Mar. 1944	1 Aug. 1944
Mack	11 Apr. 1944	16 Aug. 1944
Maurice J. Manuel	19 Feb. 1944	30 June 1944
Melvin R. Nawman	7 Feb. 1944	16 May 1944
McCoy Reynolds	22 Feb. 1944	2 May 1944
McGinty	5 Aug. 1944	25 Sep. 1944
Naifeh	29 Feb. 1944	4 July 1944
O'Flaherty	14 Dec. 1943	8 Apr. 1944
Oliver Mitchell	8 Feb. 1944	14 June 1944
Osberg	7 Dec. 1943	
Pratt	1 June 1944	18 Sep. 1944
Presley	19 Aug. 1944	7 Nov. 1944
Raymond	8 Jan. 1944	15 Apr. 1944
Richard M. Rowell	17 Nov. 1943	9 Mar. 1944
Richard S. Bull	16 Nov. 1943	26 Feb. 1944
Richard W. Suesens	11 Jan. 1944	26 Apr. 1944
Rizzi		26 June 1945
Robert Brazier	22 Jan. 1944	18 May 1944
Robert F. Keller	11 Feb. 1944	17 June 1944
Rolf	23 May 1944	7 Sep. 1944
Rombach	6 June 1944	20 Sep. 1944
Silverstein	8 Nov. 1943	14 July 1844
Stafford	11 Jan. 1944	19 Apr. 1944
Strauss	30 Dec. 1943	6 Apr. 1944
Tabberer	18 Feb. 1944	23 May 1944
Thaddeus Parker	26 Aug. 1944	25 Oct. 1944
Traw	14 Feb. 1944	20 June 1944
Tweedy	7 Oct. 1943	12 Feb. 1944
Ulvert M. Moore	7 Mar. 1944	18 July 1944
Vandivier	27 Dec. 1943	
Wagner	10 Jan. 1943	
Walter C. Wann	19 Jan. 1944	2 May 1944
Walton	20 May 1944	4 Sep. 1944
William Seiverling	7 Mar. 1944	1 June 1944
Williams	22 Aug. 1944	11 Nov. 1944
Woodson	29 Apr. 1944	24 Aug. 1944

Notes.—Originally rated as Destroyer Escorts (DE). Two ships marked A/S, *Lewis* and *Tweedy*, converting to DE (A/S). *Oswald A. Powers* and *Sheehan* have been scrapped. War losses : *Eversole, Oberrender, Samuel B. Roberts, Shelton.*

* Completion of *Vandivier* and *Wagner* was suspended in Aug. 1946.

Rated as **Escort Vessels** (DE)

50 " Buckley " Class.

2 *Bethlehem-Hingham*
DE
575 AHRENS
59 FOSS

5 *Bethlehem, Quincy*
681 GILLETTE
679 GREENWOOD
678 HARMON
683 HENRY R. KENYON
680 LOESER

9 *Bethlehem, S. Francisco*
643 DAMON M. CUMMINGS
640 FIEBERLING
633 FOREMAN
639 GENDREAU
642 PAUL G. BAKER
A/S 644 VAMMEN
634 WHITEHURST
641 WILLIAM C. COLE
638 WILLMARTH

6 *Charleston Navy Yard*
DE
202 EICHENBERGER
201 JAMES E. CRAIG
199 MANNING
200 NEUENDORF
210 OTTER
203 THOMASON

8 *Consolidated Steel Corpn., Orange*
790 BORUM
795 GUNASON
800 JACK W. WILKE
796 MAJOR
791 MALOY
799 SCROGGINS
798 VARIAN
797 WEEDEN

10 *Defoe Co.*
C 704 CRONIN
700 CURRIER
702 EARL V. JOHNSON
C 705 FRYBARGER

DE
697 GEORGE
703 HOLTON
699 MARSH
701 OSMUS
C 698 RABY
696 SPANGLER

3 *Drave Corpn., Pittsburgh*
666 DURIK
665 JENKS
667 WISEMAN

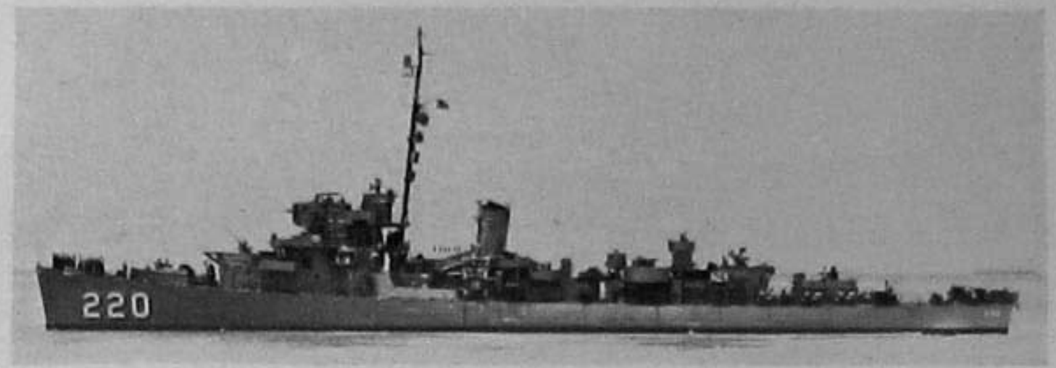
1 *Norfolk Navy Yard*
198 LOVELACE

6 *Philadelphia Navy Yard*
217 COOLBAUGH
218 DARBY
222 FOWLER
220 FRANCIS M. ROBINSON
219 J. DOUGLAS BLACKWOOD
214 SCOTT

Displacement : 1,400 tons (2,170 tons *full load*)
Dimensions : 306 (*o.a.*) × 36½ × 10¼ (mean) 14 (*max.*) feet
Guns : 3—3 inch, 50 cal. (*Coolbaugh, Darby, J. Douglas Blackwood, Raby* 2—5 inch, 38 cal. d.p.)—see *Gunnery Notes*, 8—40 mm. AA., 4—20 mm. AA., and D.C.T.
Tubes : Removed
Machinery : Turbo-electric. 2 shafts. S.H.P. : 12,000 = 24 kts.
Oil fuel : 340 tons
Complement : 220 (war)

General Notes.—46 ships of this class, originally rated as Destroyer Escorts (DE), were transferred under Lend-Lease scheme to Royal Navy in which they served as frigates. Six of these were lost, and the remainder were returned to U.S.A. for scrapping. Fifty more of " Buckley " class were adapted for duty as Fast Transports or for subsidiary purposes. *Foss, Marsh* and others rigged as power supply ships have two large reels for power cables amidships. *Fechteler* and *Underhill* were lost in the Second World War *Solar* was Destroyed by internal explosion, April 30, 1946.

Name	*Launched*	*Completed*
Ahrens	21 Dec. 1943	12 Feb. 1944
Borum	14 Aug. 1943	30 Nov. 1943
Coolbaugh	29 May 1943	15 Oct. 1943
Cronin	5 Jan. 1944	4 May 1944
Currier	14 Oct. 1943	1 Feb. 1944
Damon M. Cummings	18 April 1944	29 June 1944
Darby	29 May 1943	15 Nov. 1943
Durik	9 Oct. 1943	24 Mar. 1944
Earl V. Johnson	12 Jan. 1944	18 Mar. 1944
Eichenberger	22 July 1943	17 Nov. 1943
Fieberling	2 Mar. 1944	11 Apr. 1944
Foreman	1 Aug. 1943	22 Oct. 1943
Foss	10 Apr. 1943	23 July 1943
Fowler	3 July 1943	15 Mar. 1944
Francis M. Robinson	29 May 1943	15 Jan. 1944
Fryborger	25 Jan. 1944	18 May 1944
George	16 Feb. 1943	20 Nov. 1943
Gendreau	12 Dec. 1943	17 Mar. 1944
Gillette	25 Sep. 1943	27 Oct. 1943
Greenwood	21 Aug. 1943	25 Sep. 1943
Gunason	17 Oct. 1943	1 Feb. 1944
Harmon	25 July 1943	31 Aug. 1943
Henry R. Kenyon	30 Oct. 1943	30 Nov. 1943
Holton	15 Dec. 1943	1 May 1944
Jack W. Wilke	18 Dec. 1943	7 Mar. 1944
James E. Craig	22 July 1943	1 Nov. 1943
J. Douglas Blackwood	29 May 1943	15 Jan. 1943
Jenks	11 Sep. 1943	19 Jan. 1944
Loeser	11 Sep. 1943	10 Oct. 1943
Lovelace	4 July 1943	7 Nov. 1943
Major	23 Oct. 1943	12 Feb. 1944
Maloy	18 Aug. 1943	13 Dec. 1943
Manning	1 Sept. 1943	1 Oct. 1943
Marsh	29 Jan. 1943	12 Jan. 1944
Neuendorf	18 Sept. 1943	18 Oct. 1943
Osmus	4 Nov. 1943	23 Feb. 1944
Otter	23 Oct. 1943	21 Feb. 1944
Paul G. Baker	12 Mar. 1944	25 May 1944
Raby	4 Sep. 1943	7 Dec. 1943
Scott	3 Apr. 1943	20 July 1943
Scroggins	6 Nov. 1943	30 Mar. 1944
Spangler	15 July 1943	31 Oct. 1943
Thomason	24 Aug. 1943	10 Dec. 1943
Varian	6 Nov. 1943	29 Feb. 1944
Vammen	21 May 1944	27 July 1944
Weeden	27 Oct. 1943	19 Feb. 1944
Whitehurst	5 Sep. 1943	19 Nov. 1943
William C. Cole	28 Dec. 1943	12 May 1944
Willmarth	21 Nov. 1943	13 Mar. 1944
Wiseman	6 Nov. 1943	4 Apr. 1944



FRANCIS M. ROBINSON (3-inch gunned type). 1953, *U.S. Navy, Official.*

J. DOUGLAS BLACKWOOD (5-inch gunned type). 1952, *U.S. Naval Academy.*

Gunnery Notes.—Ten DE's of this class have 5-inch guns (see photo).

A/S *Vammen* to convert to DE (A/S), i.e., for anti-submarine warfare.
C *Cronin, Frybarger* and *Raby* are redesignated DEC (escort vessels, control) on reassignment to amphibious forces.

Rated as **Escort Vessels** (DE).

63 " Edsall " Class.

30 *Brown S.B. Co., Houston*

DE
390 CALCATERRA
251 CAMP
398 COCKRILL
393 HAVERFIELD
400 HISSEM
252 HOWARD D. CROW
250 HURST
396 JANSSEN
243 J. RICHARD WARD
241 KEITH
249 MARCHAND
392 MERRILL
383 MILLS
240 MOORE
253 PETTIT
384 RHODES
254 RICKETTS
386 SAVAGE
255 SELLSTROM
245 SLOAT

DE
246 SNOWDEN
247 STANTON
238 STEWART
399 STOCKDALE
239 STURTEVANT
248 SWASEY
394 SWENNING
242 TOMICH
397 WILHOITE
395 WILLIS

33 *Consolidated Steel Corpn.*
147 BLAIR
372 BRISTER
148 BROUGH
149 CHATELAIN
337 DALE W. PETERSON
335 DANIEL
138 DOUGLAS L. HOWARD
129 EDSALL
139 FARQUHAR
135 FLAHERTY

DE
144 FROST
131 HAMMAN (*ex-Langley*)
137 HERBERT C. JONES
141 HILL
145 HUSE
146 INCH
130 JACOB JONES
140 J. R. Y. BLAKELEY
329 KRETCHMER
338 MARTIN H. RAY
320 MENGES
321 MOSLEY
150 NEUNZER
330 O'REILLY
A/S 152 PETERSON
133 PILLSBURY
151 POOLE
134 POPE
332 PRICE
323 PRIDE
132 ROBERT E. PEARY
336 ROY O. HALE
326 THOMAS J. GARY

Displacement :	1,200 tons (1,850 tons *full load*)
Dimensions :	306 (*o.a.*) × 36¾ × 11 (*max.*) feet
Guns :	3—3 inch, 50 cal. (*Camp*, 2—5 inch, 38 cal., d.p.). 8—40 mm. AA., 4—20 mm. AA. and D.C.T.
Tubes :	Removed
Machinery :	Fairbanks-Morse Diesels. 2 shafts. B.H.P. : 6,000 = 21 kts.
Complement :	220 (*war*)

Note.—Fessenden, Harveson, Joyce, Kirkpatrick, Otterstetter and *Strickland* of this class converted to DER (Radar Picket Escort Vessels), see preceding page. *Folgout, Finch, Forster, Koiner, Lowe* and *Newall*, transferred to United States Coast Guard 1951, *Chambers, Durant, Lansing, Ramsden, Richey, Vance*, 1952. War losses : *Fiske, Frederick C. Davis, Holder, Leopold.*

A/S *Petersen* has been converted to DE(A/S), i.e., for specialised anti-submarine warfare (recommissioned 1 May 1952).

Name	*Launched*	*Completed*
Blair	6 Apr. 1943	13 Sep. 1943
Brister	24 Aug. 1943	30 Nov. 1943
Brough	10 Apr. 1943	18 Sep. 1943
Calcaterra	16 Aug. 1943	17 Nov. 1943
Camp	16 Apr. 1943	16 Sep. 1943
Chatelain	21 Aug. 1943	22 Sep. 1943
Cockrill	29 Oct. 1943	24 Dec. 1943
Dale W. Petersen	22 Dec. 1943	17 Feb. 1943
Daniel	16 Nov. 1943	24 Jan. 1944
Douglas L. Howard	25 Jan. 1943	29 July 1943
Edsall	1 Nov. 1942	10 Apr. 1943
Farquhar	13 Feb. 1943	5 Aug. 1943
Flaherty	17 Jan. 1943	26 June 1943
Frost	21 Mar. 1943	30 Aug. 1943
Hamman	13 Dec. 1942	17 May 1943
Haverfield	30 Aug. 1943	29 Nov. 1943
Herbert C. Jones	19 Jan. 1943	21 July 1943
Hill	28 Feb. 1943	16 Aug. 1943
Hissem	26 Dec. 1943	13 Jan. 1944
Howard D. Crow	26 Apr. 1943	27 Sep. 1943
Hurst	14 Apr. 1943	30 Aug. 1943
Huse	23 Mar. 1943	30 Aug. 1943
Inch	4 Apr. 1943	8 Sep. 1943
Jacob Jones	29 Nov. 1942	29 Apr. 1943
Janssen	10 Oct. 1943	18 Dec. 1943
J. Richard Ward	6 Jan. 1943	5 July 1943
J. R. Y. Blakely	7 Mar. 1943	16 Aug. 1943
Keith	21 Dec. 1942	19 July 1943
Kretchmer	31 Aug. 1943	13 Dec. 1943
Marchand	20 Mar. 1943	8 Sep. 1943
Martin H. Ray	29 Dec. 1943	28 Feb. 1944

Name	*Launched*	*Completed*
Menges	15 June 1943	26 Oct. 1943
Merril	29 Aug. 1943	27 Nov. 1943
Mills	26 May 1943	12 Oct. 1943
Moore	21 Dec. 1942	1 July 1943
Mosley	26 June 1943	30 Oct. 1943
Neunzer	27 Apr. 1943	27 Sep. 1943
O'Reilly	2 Sep. 1943	28 Dec. 1943
Petersen	15 May 1943	1943
Pettit	28 Apr. 1943	23 Sep. 1943
Pillsbury	10 Jan. 1943	7 June 1943
Poole	8 May 1943	29 Sep. 1943
Pope	12 Jan. 1943	25 June 1943
Price	30 Oct. 1943	12 Jan. 1944
Pride	3 July 1943	13 Nov. 1943
Rhodes	29 June 1943	25 Oct. 1943
Ricketts	10 May 1943	5 Oct. 1943
Robert E. Peary	3 Jan. 1943	31 May 1943
Roy O. Hale	20 Nov. 1943	3 Feb. 1944
Savage	15 July 1943	29 Oct. 1943
Sellstrom	12 May 1943	12 Oct. 1943
Sloat	21 Jan. 1943	16 Aug. 1943
Snowden	19 Feb. 1943	23 Aug. 1943
Stenton	28 Feb. 1943	7 Aug. 1943
Stewart	22 Nov. 1942	31 May 1943
Stockdale	30 Oct. 1943	31 Dec. 1943
Sturtevant	3 Dec. 1942	16 June 1943
Swasey	18 Mar. 1943	31 Aug. 1943
Swenning	13 Sep. 1943	1 Dec. 1943
Thomas J. Gary	21 Aug. 1943	27 Nov. 1943
Tomich	28 Dec. 1942	26 July 1943
Wilhoite	5 Oct. 1943	16 Dec. 1943
Willis	14 Sep. 1943	10 Dec. 1943

SAVAGE. *Added 1950, U.S. Navy, Official.*

POOLE. *Added 1950, U.S. Navy, Official.*

KRETCHMER. 1946, S. C. Heal, Esq.

Rated as **Escort Vessels, Radar Picket** (DER).

7 Converted " Buckley " Class.

WILLIAM T. POWELL. 1952, *Ted Stone.*

DER
577 ALEXANDER J. LUKE
51 BUCKLEY
57 FOGG

DER
153 REUBEN JAMES
578 ROBERT I. PAYNE

DER
223 SPANGENBURG
213 WILLIAM T. POWELL

Displacement :	1,400 tons *standard* (2,170 tons *full load*)
Dimensions :	306 (*o.a.*) × 36½ × 14 (*max.*) feet
Guns :	2—5 inch, 38 cal. d.p., 8—40 mm. AA., and D.C.T.
Machinery :	Turbo-electric drive. 2 shafts. S.H.P. : 12,000 = 24 kts.
Oil fuel :	340 tons
Complement :	220

Notes.— Built as Destroyer Escorts (DE) with 3—3 inch guns. Subsequently known as Escort Vessels. Now grouped under generic heading of Patrol Vessels with the sub-classification : " Escort Vessels, Radar Picket " (DER).

Name	*Builders*	*Launched*	*Completed*
Alexander J. Luke	Bethlehem-Hingham	28 Dec. 1943	19 Feb. 1944
Buckley	Bethlehem-Hingham	9 Jan. 1943	30 Apr. 1944
Fogg	Bethlehem-Hingham	20 Mar. 1943	7 July 1943
Reuben James	Norfolk Naval Shipyard	6 Feb. 1943	1 Apr. 1943
Robert I. Payne	Bethlehem-Hingham	30 Dec. 1943	28 Feb. 1944
Spangenburg	Philadelphia Naval Shipyard	3 July 1943	15 Apr. 1944
William T. Powell	Charleston Naval Shipyard	27 Nov. 1943	28 Mar. 1944

Radar Picket and Ordnance Testing Experimental Ship (AG).

AG
127 WINSLOW

Builders :	New York Shipbuilding Corporation
Laid down :	18 Dec. 1933
Launched :	21 Sep. 1936
Completed :	19 Oct. 1937
Displacement :	1,805 tons (2,130 tons *full load*)
Dimensions :	381 (*o.a.*) × 37 × 17 (*max.*) feet
Guns :	4—5 inch, 38 cal., 4—40 mm. Bofors
Machinery :	Geared turbines. 2 shafts. S.H.P. : 50,000 = 35 kts.
Boilers :	4 Babcock & Wilcox high pressure
Oil fuel :	600 tons
Complement :	230

Notes.—Formerly DD 359, this original unit of the " Selfridge " class destroyers was modified for radar picket duty and as experimental ordnance testing ship. Torpedo tubes removed. Tripod lattice radar mast between funnels. Carries out training and trials duties from Norfolk with the Operational Development Force. Is rated operationally as EAG.

Rated as **Escort Vessels, Radar Picket** (DER).

6 Converted " Edsall " Class.

JOYCE. 1952, *Ted Stone.*

DER
142 FESSENDEN
316 HARVESON

DER
317 JOYCE
318 KIRKPATRICK

DER
244 OTTERSTETTER
333 STRICKLAND

Displacement :	1,200 tons (1,850 tons *full load*)
Dimensions :	306 (*o.a.*) × 36½ × 11 (*max.*) feet
Guns :	3—3 inch, 50 cal., 8—40 mm. AA., 4—20 AA.
Machinery :	Diesels. 2 shafts. B.H.P. : 6,000 = 21 kts.
Complement :	220

Notes.—Originally rated as Destroyer Escorts (DE) but now grouped under the generic heading of Patrol Vessels with the specific designation of Radar Picket Escort Vessels. Converted to DER 1951.

Name	*Builders*	*Launched*	*Completed*
Fessenden	Consolidated Steel Corporation	9 Mar. 1943	25 Aug. 1943
Harveson	Consolidated Steel Corporation	22 May 1943	12 Oct. 1943
Joyce	Consolidated Steel Corporation	26 May 1943	30 Sep. 1943
Kirkpatrick	Consolidated Steel Corporation	5 June 1943	23 Oct. 1943
Ottersetter	Brown Shipbuilding Co., Houston	19 Jan. 1943	6 Aug. 1943
Strickland	Consolidated Steel Corporation	2 Nov. 1943	10 Jan. 1944

Anti-Submarine Experimental Ship (AG).

AG
151 RICHARD E. KRAUS

Builders :	Bath Iron Works
Launched :	2 Mar., 1946
Displacement :	2,425 tons (3,300 tons *full load*)
Dimensions :	390½ (*o.a.*) × 40½ × 19 (*max.*) feet
Guns :	4—5 inch, 38 cal., 2—3 inch, 50 cal.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 60,000 = 35 kts.
Boilers :	4
Complement:	350

Notes.—Formerly DD 849, this original unit of the " Gearing " class destroyers is now designated an auxiliary. She was reclassified because of her permanent assignment to the Operational Development Force for evaluation of assigned projects. She carries six guns, twin 3-inch guns having been added to the two 5-inch guns, and no torpedo tubes. She serves as a sonar training and experimental vessel, being the anti-submarine test ship based at Key West.

Submarines (*New Construction*).

Note.—The partially constructed submarine *Ulua* SS 428 is to be used for tests in connection with the new atomic powered submarines.

Radar Picket Type.

2 *Portsmouth Navy Yard*

SSR 572 SAILFISH	SSR 573 SALMON
Displacement :	2,425 tons *surface*
Dimensions :	Length: 345 feet
Machinery :	Diesel-electric
Speed :	20 kts. *surface*

Notes.—Ordered 27 Feb. 1952 for completion in 1954. To be fitted with an air control centre.

Auxiliary (Experimental) Type.

1 *Portsmouth Navy Yard*

AG (SS)
569 ALBACORE

Laid down :	15 Mar. 1952
Displacement :	1,100 tons (*nominal*), 1,218 tons *standard*
Machinery :	Single screw. Speed: 25 kts.
Cost :	$10,000,000

Notes.—High speed underwater target and experimental submarine. To be completed Dec. 1953.

Midget (Experimental) Type (*Submersible Craft*).

1 *Portsmouth Naval Yard.*

XI

Displacement :	25 tons *standard*
Dimensions :	Length: 48 feet. Draught: 7 feet
Complement :	4

Note.—Prototype now in the design and development stage at the Fairchild Engine and Airplane Corporation, New York.

Hydrogen Peroxide Powered (closed cycle propulsion) Type.

1 *Portsmouth Navy Yard*

Displacement :	2,200 tons
Cost :	$37,000,000

2 Atomic (Nuclear) Powered Type.

2 *Electric Boat Co., Groton, Conn.*

SSN 571 NAUTILUS	SSN 575 SEA WOLF
Displacement :	2,500 tons *standard* (*surface*), 3,180 tons *submerged*
Dimensions :	320 (*o.a.*) feet
Machinery :	*Nautilus* engine: Thermal reactor and water coolant. S.H.P. : 1,500 *Sea Wolf*: engine: Intermediate reactor with a liquid metal coolant Speed: over 20 kts. submerged
Cost :	$40,000,000 (*Nautilus*) $32,700,000 (*Sea Wolf*)

Note.—*Nautilus* engined by Westinghouse. Laid down 14 June 1952. Expected to be launched in 1954. Her engine alone will cost about $25,000,000. *Sea Wolf*, another unit of this type ordered 19 July 1952, with engine of different type to be manufactured by General Electric Company to cost $32,700,000 without engine. Diving depth 700 feet.

Small Experimental Coastal (Target and Training) Type.

1 *Electric Boat Co., Groton, Conn.*	1 *Portsmouth Navy Yard*
SST T1	**SST T2**
Displacement:	250 tons *standard*
Dimensions :	133 × 33½ × 11 feet
Torpedo Tubes :	1
Machinery :	Diesel Electric, single screw
Speed :	10 kts. *surface*
Cost:	$3,000,000
Complement:	14

Notes.—T1 ordered 17 Mar. 1951, laid down 1 April 1952, and launched 17 July 1953. Smallest submarine built for 47 years. Stated to be useful in landing raiding parties. Some general appearance as other " Guppy " type submarines. T2 ordered 5 Jan. 1952 and laid down 12 May 1952. To complete construction 1 Dec. 1953. Classification *SST* and name *T1* now supersedes AG (SS) 570. the classification and number previously assigned.

Submarine Hunter Killers (SSK).

3 " K " Class.

K3. 1953, *U.S. Navy, Official.*

K 1. 1952, *U.S. Navy, Official.*

SSK K 1	SSK K 2	SSK K 3
	Displacement :	765 tons *standard*
	Dimensions :	196 (*o.a.*) × — × — feet
	Complement :	45 to 47

Name.—Medium size, " extremely quiet," and very handy design specifically built for A/S operations. Have letters and numbers instead of names. Have ungainly prow full of listening gear, newest electronic and sonar detection equipment, short hull, which makes them highly manoeuvrable and suitable for ambushing other submarines. Carry " target seeking " torpedoes.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
K 1	Electric Boat Co.	1 July 1949	2 Mar. 1951	10 Nov. 1951
K 2	Mare Island Naval Shipyard	23 Feb. 1950	2 May 1951	11 Jan. 1952
K 3	Mare Island Naval Shipyard	17 Mar. 1950	21 June 1951	11 Feb. 1952

High-Speed Attack Submarines (SS).

1 Improved "Tang" Class (*New Construction*).

1 Mare Island Naval Shipyard

SS

574 GRAYBACK

Dimensions : Length: 296 (o.a.) feet

Notes.—New design attack submarine with streamlined Guppy snorkel equipment and a conventional engine of improved design.

6 "Tang" Class.

TANG. 1952, *U.S. Navy, Official.*

TRIGGER. 1952, *U.S. Navy, Official.*

3 Portsmouth Navy Yard

SS

563 TANG
565 WAHOO
567 GUDGEON

3 Electric Boat Company, Groton

SS

564 TRIGGER
566 TROUT
568 HARDER

Displacement : 1,615 tons *standard*, 1,800 tons *surface*
Dimensions : 268 (o.a.) × — × — feet
Tubes : 6—21 inch
Machinery : Diesel-electric designed for 15 to 20 kts. (*surface*), over 17 kts. (*submerged*)
Complement : 78 (*Tang, Wahoo* 82, *Trigger* 83)

General Notes.—Embody various improvements based on war experience to give higher submerged speed, with a development of the Schnorkel breathing tubes. They are streamlined deep-diving vessels but have comparatively short hulls. *Trigger* was the first submarine of the post-war programme to be laid down. *Tang* was the first of the new class to be completed (first large submarines to be constructed by the U.S. Navy since the Second World War). Reported to be most advanced in the world. Faster, more manoeuvrable and capable of more diversified employment than their predecessors of the wartime fleet type and the more recent guppy-schnorkel conversions.

Engineering Notes.—Powered by a compact radial type engine produced after five years of development work, comprising a 16-cylinder 2 cycle plant, mounted vertically with four rows of cylinders, radially arranged. These new engines are only half the weight and approximately two-thirds the size of the engines previously available for use in submarines. *Gudgeon* and *Harder* have 3 Fairbanks-Morse high speed light weight engines mounted horizontally. The hull is shorter than current fleet types, and this reduction in length is said to contribute to the underwater speed.

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Gudgeon	20 May 1950	11 June 1952	21 Nov. 1952	*Trigger*	24 Feb. 1949	14 June 1951	31 Mar. 1952
Harder	30 June 1950	3 Dec. 1951	19 Aug. 1952	*Trout*	1 Dec. 1949	21 Aug. 1951	1952
Tang	18 April 1949	19 June 1951	25 Oct. 1951	*Wahoo*	24 Oct. 1949	16 Oct. 1951	30 May 1952

Submarines (SS).

28 + 2 "Tench" Class.

TUSK. 1953, *A. & J. Pavia.*

ODAX (after streamlining to increase underwater speed). *Added 1950, U.S. Navy, Official.*

4 Boston Navy Yard

SS

G 522 AMBERJACK (Dec. 15, 1944)
G 523 GRAMPUS (Dec. 15, 1944)
G 525 GRENADIER (Dec. 15, 1944)
G 524 PICKEREL (Dec. 15, 1944)

2 Cramp S.B. Co.

G 425 TRUMPETFISH (Feb. 19, 1944)
G 426 TUSK (July 8, 1945)

3 Electric Boat Co.

435 CORSAIR (April 19, 1946)
***436 UNICORN** (Aug. 1, 1946)
***437 WALRUS** (Sept. 20, 1946)

21 Portsmouth Navy Yard

SS

475 ARGONAUT (Oct. 1, 1944)
477 CONGER (17 Oct 1944)
G 478 CUTLASS (Nov. 5, 1944)
479 DIABLO (Nov. 30, 1944)
482 IREX (Jan. 26, 1945)
480 MEDREGAL (Dec. 15, 1944)
G 484 ODAX (April 10, 1945)
G 486 POMODEN (Dec. 6, 1945)
G 424 QUILLBACK (*ex-Trembler*, Oct. 1, 1944)
G 487 REMORA (Dec. 7, 1945)

SS

476 RUNNER (Oct. 17, 1944)
488 SARDA (Aug. 24, 1945)
G 483 SEA LEOPARD (March 2, 1945)
G 485 SIRAGO (May 11, 1945)
G 417 TENCH (July 7, 1944)
G 418 THORNBACK (July 7, 1944)
G 420 TIRANTE (Aug. 9, 1944)
422 TORO (Aug. 19, 1944)
423 TORSK (Sept. 6, 1944)
G 421 TRUTTA (Aug. 18, 1944)
G 490 VOLADOR (Jan. 17, 1946)

Displacement : 1,570 tons (2,500 tons *submerged*)
Dimensions : 311½ (o.a.), Guppies 306 (length varies) × 27½ × 17 (*surface*) feet
Guns : 1—5 inch, 25 cal., 2—40 mm. AA. (Guppies, none)
Tubes : 10—21 inch
Machinery : B.H.P.: 6,500=20 kts. (*surface*), H.P.: 2,750=10 kts. (*submerged*), Guppies faster
Complement : 85

General Notes.—Enlarged and improved version of *Baloo* design, able to dive to 100 fathoms. Nearly all fitted with a development of the German Schnorkel breathing apparatus. *Pickerell*, commissioned April 4, 1949, made a 5,200 miles run from Hong Kong to Pearl Harbour in 21 days without surfacing in 1950. In 1952, she surfaced in tests at a 48 degree angle from a depth of 150 feet, one of the steepest ever attempted. Both tests made to evaluate the capabilities and design characteristics of guppy type submarines. *Requin, Spinax* and *Tigrone* converted to Radar Picket Submarines (see later page). *Grenadier* commissioned 10 Feb. 1951.

Experimental Note.—Partly completed *Turbot* (SS 427) is being used for sound, vibration and internal combustion tests.

G 18 units marked G are of the new "Guppy" (Greater Underwater Propulsive Power) design equipped with the latest devices.
* Construction of *Unicorn* and *Walrus* still suspended. 93 more of this class were cancelled during 1944-45, including *Chicolar, Camber Dorado, Grayling, Needlefish* (493), *Pompano, Sculpin, Tiburon, Wahoo* (516).

Submarines (SS).
88 + 1 "Balao" Class.

CHOPPER. 1952, *A. & J. Pavia.*

10 *Cramp S.B. Co.*

SS
292 **DEVILFISH** (May 30, 1943)
293 **DRAGONET** (April 18, 1943)
295 **HACKLEBACK** (May 30, 1943)
*296 **LANCETFISH** (Aug. 18, 1943)
297 **LING** (Aug. 18, 1943)
298 **LIONFISH** (Nov. 7, 1943)
300 **MORAY** (May 14, 1944)
301 **RONCADOR** (May 14, 1944)
302 **SABALO** (June 4, 1944)
303 **SABLEFISH** (June 4, 1944)

27 *Electric Boat Co.*

311 **ARCHERFISH** (May 29, 1943)
309 **ASPRO** (ex-*Acedia*, April 7, 1943)
310 **BATFISH** (ex-*Acoupa*, May 3 1943)
G 319 **BECUNA** (Jan. 30, 1944)
320 **BERGALL** (Feb. 16, 1944)
G 321 **BESUGO** (Feb. 27, 1944)
G 322 **BLACKFIN** (March 12, 1944)
G 324 **BLENNY** (April 9, 1944)
331 **BUGARA** (July 2, 1944)
334 **CABEZON** (Aug. 27, 1944)
G 323 **CAIMAN** (ex-*Blanquillo*, March 30, 1944)
336 **CAPITAINE** (Oct. 1, 1944)
338 **CARP** (Nov. 12, 1944)
G 339 **CATFISH** (Nov. 19, 1944)
328 **CHARR** (ex-*Bocaccio*, May 28, 1944)
G 341 **CHIVO** (Jan. 14, 1945)
G 342 **CHOPPER** (Feb. 14, 1945)
G 343 **CLAMAGORE** (Feb. 23, 1945)
G 344 **COBBLER** (April 1, 1945)

SS
G 346 **CORPORAL** (June 10, 1945)
G 347 **CUBERA** (June 17, 1945)
T 335 **DENTUDA** (Sept. 10, 1944)
G 349 **DIODON** (Sept. 10, 1945)
G 350 **DOGFISH** (Oct. 27, 1945)
G 340 **ENTEMEDOR** (ex-*Chiswick*, Dec. 17, 1944)
G 351 **GREENFISH** (ex-*Doncella*, Dec. 21, 1945)
G 352 **HALFBEAK** (ex-*Dory*, Feb. 19, 1946

10 *Manitowoc S.B. Co.*

G 365 **HARDHEAD** (Dec. 12, 1943)
368 **JALLAO** (March 12, 1944)
370 **KRAKEN** (April 30, 1944)
372 **LAMPREY** (June 18, 1944)
373 **LIZARDFISH** (July 16, 1944)
374 **LOGGERHEAD** (Aug. 13, 1944)
375 **MACABI** (Sept. 19, 1944)
376 **MAPIRO** (Nov. 9, 1944)
G 377 **MENHADEN** (Dec. 20, 1944)
378 **MERO** (Jan. 17, 1945)

8 *Mare Island Navy Yard*

304 **SEAHORSE** (Jan. 9, 1943)
411 **SPADEFISH** (Jan. 8, 1943)
413 **SPOT** (May 20, 1944)
414 **SPRINGER** (Aug. 3, 1944)
G 415 **STICKLEBACK** (Jan. 1, 1944)
307 **TILEFISH** (Oct. 25, 1944)
G 416 **TIRU** (Sept. 16, 1947)
412 **TREPANG** (March 23, 1944)

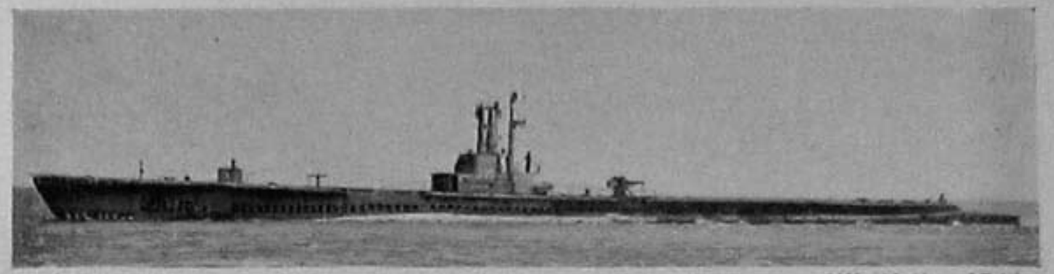
34 *Portsmouth Navy Yard*

SS
403 **ATULE** (March 6, 1944)
285 **BALAO** (Nov., 1942)
G 385 **BANG** (Aug. 30, 1943)
286 **BILLFISH** (Nov. 13, 1942)
287 **BOWFIN** (Dec. 7, 1943)
288 **CABRILLA** (Dec. 24, 1942)
291 **CREVALLE** (Feb. 22, 1943)
383 **PAMPANITO** (July 12, 1943)
T 384 **PARCHE** (July 24, 1943)
M 382 **PICUDA** (ex-*Obisto*, July 12, 1943)
387 **PINTADO** (Sept. 15, 1943)
388 **PIPEFISH** (Oct. 12, 1943)
409 **PIPER** (ex-*Awa*, June 26, 1944)
389 **PIRANHA** (Oct. 27, 1943)
390 **PLAICE** (Nov. 15, 1943)
G 391 **POMFRET** (Oct. 27, 1943)
393 **QUEENFISH** (Nov. 30, 1943)
G 394 **RAZORBACK** (Jan. 27, 1944)
395 **REDFISH** (Jan. 27, 1944)
G 396 **RONQUIL** (Jan. 27, 1944)
381 **SADLANCE** (ex-*Orca*, ex-*Orjonco* June 25, 1943)
397 **SCABBARDFISH** (Jan. 27, 1944
399 **SEA CAT** (Feb. 21, 1944)
400 **SEA DEVIL** (Feb. 28, 1944)
401 **SEA DOG** (March 28, 1944)
G 402 **SEA FOX** (March 28, 1944)
405 **SEA OWL** (May 7, 1944)
G 406 **SEA POACHER** (May 20, 1944)
407 **SEA ROBIN** (May 25, 1944)
398 **SEGUNDO** (Feb. 5, 1944)
408 **SENNET** (June 6, 1944)
404 **SPIKEFISH** (ex-*Shiner*, Apr. 26, 1944)
392 **STERLET** (Oct. 27, 1943)
G 410 **THREADFIN** (ex-*Sole*, June 26, 1944)

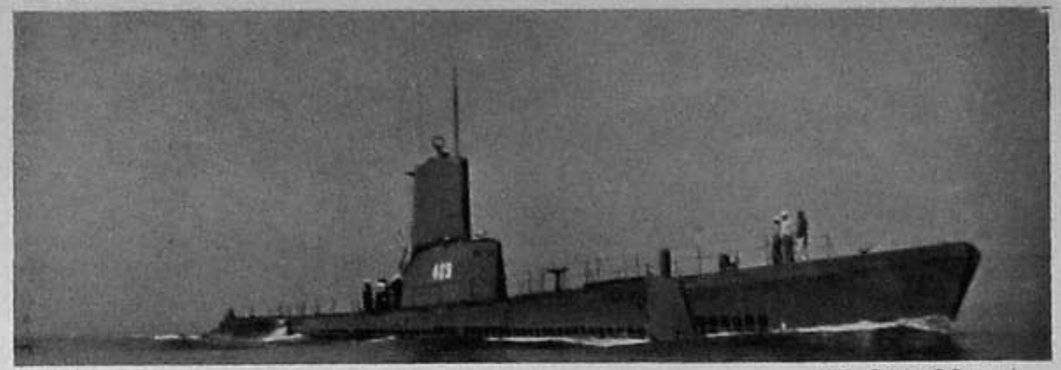
Displacement :	1,526 tons (2,425 tons *submerged*)
Dimensions :	311¾ × 27 × 17 feet (Guppy conversions 309 (o.a.) feet, but length varies)
Guns :	Mostly 1 or 2—5 inch, 25 cal., 2—40 mm. AA., Armament varies (Guppies, no guns)
Tubes :	10—21 inch (6 bow, 4 stern), 24 torpedoes
Machinery :	G.M. or Fairbanks-Morse 2-stroke Diesels. B.H.P. : 6,500 = 20 kts. (*surface*), H.P. : 2,750 = 10 kts. (*submerged*). *Dogfish*, submerged speed, 17·25 kts.
Complement :	85

Notes.—In order to facilitate rapid building, all were of the same general type as *Gato* class, and of all-welded construction. Average time of construction during war was reduced to about nine months. High standard of accommodation, including separate messing and sleeping compartments. War losses : *Barbel, Bullhead, Capelin, Cisco, Escolar, Golet, Kete, Lagarto, Shark, Tang*. 16 cancelled : *Dugong, Eel, Espada, Garlappa, Gauppa, Goldring, Jawfish, Needlefish* (379), *Nerka, Ono, Turbot, Ulua, Vandace* (431), *Whitefish, Whiting, Wolffish*. In addition *Apogon, Pilotfish* and *Skate* were placed on disposal list after being employed as atom bomb targets. *Dentuda* and *Parche* of this class are non-operational submarines assigned to Naval Reserve Training duties. *Cusk* armed with guided missiles ; *Barbero* equipped to carry cargo ; *Sealion* and *Perch* fitted to carry troops ; and *Burrfish* modified for radar picket duties with reduced armament ; *Guavina* converted to oiler. *Tiru* altered during construction for higher submerged speed. *Baya* equipped for electronic experiments (see later pages). *Cochino* sank off the northern coast of Norway, Aug. 26, 1949, *Blower* (325), *Bleujack* (326), *Boarfish* (372), *Chub* (329), *Brill* (330), *Bumper* (333), transferred to Turkish Navy, *Hawkbill* and *Icefish* (guppies) transferred to Royal Netherlands Navy in 1953 (on loan for five years).

* *Loncefish* suspended. **G 28** units converted into "Guppies." SS 392, 403 and 407 did not convert. **T** 2 training units. **M** Conversion of *Picuda* into a submarine minelayer deferred and expected to be cancelled.



REDFISH. 1953, *U.S. Navy, Official*

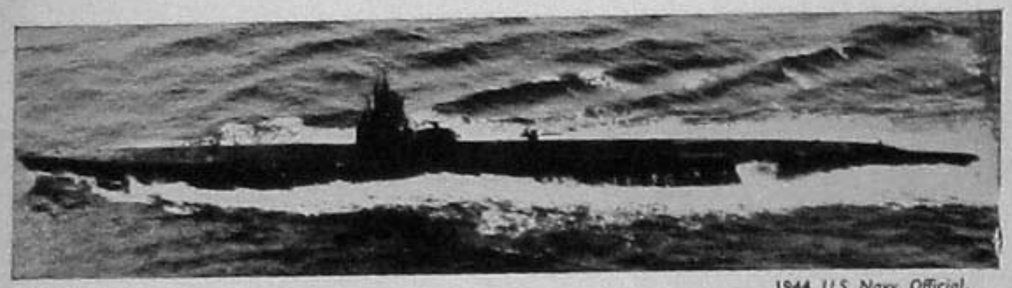


PIPER. 1952, *Charles C. Rumsegh.*

CORPORAL. *Added 1950, U.S. Navy, Official.*

Submarines (SS).

40 "Gato" Class.



HAKE. 1944, *U.S. Navy, Official.*

24 *Electric Boat Co.*

BARB
BLACKFISH
T BLUEFISH
CERO
COBIA
COD
DACE
FLASHER
FLOUNDER
GABILAN
T GATO
T GREENLING
T GUARDFISH
GUNNEL
T GURNARD
HADDO
HAKE
HOE
JACK
LAPONT
MINGO
MUSKALLUNGE
PADDLE
T PARGO

5 *Manitowoc S.B. Co.*

GUITTARO
HAMMERHEAD
PETO
POGY
T PUFFER

4 *Mare Island Navy Yard*

T SILVERSIDES
T SUNFISH
TINOSA
WHALE

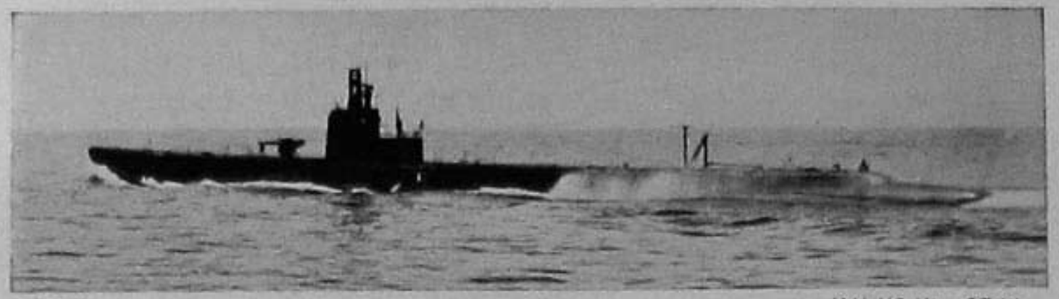
7 *Portsmouth Navy Yard*

T DRUM
FINBACK
T HADDOCK
T KINGFISH
T SAWFISH
T SHAD
T STEELHEAD

Displacement : 1,525 tons (2,452 tons *submerged*)
Dimensions : 311¾ × 27 × 17 feet
Guns : Vary 1—3 or 5 inch, 50—25 cal., d.p., 2—20 mm. AA. ; but some, including *Finback*, had 2—5 inch, 25 cal, 2—40 mm. AA.
Tubes : 10—21 inch (6 bow, 4 stern)
Machinery : G.M. 2-stroke Diesels and electric motors. Have 2 engine-rooms instead of 1 as in "Tambor" class, to reduce size of compartments. B.H.P. : 6,500 = 21 kts. (*surface*). H.P. : 2,750 = 10 kts. (*submerged*)
Complement : 85

General Notes.—Ordered under the 1939-1941 Programmes. Are improved editions of "Tambor" class. Inclusive cost per ship officially estimated at $6,288,200. War losses : *Albacore, Amberjack, Bonefish, Corvina, Darter, Dorado, Flier, Growler, Grunion, Harder, Herring, Robalo, Runner, Scamp, Scorpion, Snook, Trigger, Tullibee, Wahoo.* Following units of this class have been assigned to training duties with Naval Reserve units : *Blackfish Drum, Gato, Greenling, Guardfish, Gurnard, Haddock, Kingfish, Pargo, Puffer, Sawfish, Shad, Silversides, Steelhead, Sunfish.*

Conversion Notes.—*Grouper* was converted to al arge submarine hunter-killer (SSK) in 1950 and *Angler, Bashaw, Bluegill, Bream, Cavalla,* and *Crooker* were similarly converted to anti-submarine submarines (SSK) in 1951-53. *Pompon, Rasher, Raton, Ray, Redfin* and *Rock* were converted to Radar Picket Submarines (SSR); and *Flying Fish* was converted to an experimental submarine (AGSS). *Tunny* was converted to a Guided Missile Submarine (SSG) in 1953.



ROCK. 1944, *U.S. Navy, Official.*

No.	Name	Laid down	Launched	Completed
212	*Gato*	5 Oct. 1940	21 Aug. 1941	31 Dec. 1941
213	*Greenling*	12 Nov. 1940	20 Sept. 1941	21 Jan. 1942
217	*Guardfish*	1 Apr. 1941	20 Jan. 1942	1942
220	*Barb*	7 June 1941	2 Apr. 1942	8 July 1942
221	*Blackfish*	July 1941	18 Apr. 1942	22 July 1942
222	*Bluefish*	Aug. 1941	21 Feb. 1943	24 May 1943
224	*Cod*	1942	21 Mar. 1943	21 June 1943
225	*Cero*	1942	4 Apr. 1943	4 July 1943
228	*Drum*	11 Sep. 1940	12 May 1941	Nov. 1941
230	*Finback*	5 Feb. 1941	25 Aug. 1941	31 Jan. 1942
231	*Haddock*	31 Mar. 1941	20 Oct. 1941	14 Mar. 1942
234	*Kingfish*	Aug. 1941	2 Mar. 1942	20 May 1942
235	*Shad*	Oct. 1941	15 Apr. 1942	12 June 1942
236	*Silversides*	4 Nov. 1940	26 Aug. 1941	15 Dec. 1942
239	*Whale*	28 June 1941	14 Mar. 1942	1 June 1942
245	*Cobia*	1943	28 Nov. 1943	29 Mar. 1944
247	*Dace*	22 July 1942	25 Apr. 1943	23 July 1943
249	*Flasher*		20 June 1943	25 Sep. 1943
251	*Flounder*		22 Aug. 1943	29 Nov. 1943
252	*Gabilan*		19 Sep. 1943	28 Dec. 1943
253	*Gunnel*	21 July 1941	17 May 1942	20 Aug. 1942
254	*Gurnard*	Sep. 1941	1 June 1942	18 Sep. 1942
255	*Haddo*	Oct. 1941	21 June 1952	9 Oct. 1942
256	*Hake*	Nov. 1941	July 1942	30 Oct. 1942
258	*Hoe*	1942	17 Sep. 1942	16 Dec. 1942
259	*Jack*	1942	16 Oct. 1942	6 Jan. 1943
260	*Lapon*	1942	27 Oct. 1942	23 Jan. 1943
261	*Mingo*	1942	13 Dec. 1942	12 Feb. 1943
262	*Muskellunge*	1942	30 Dec. 1942	15 Mar. 1943
263	*Paddle*	1942	30 Nov. 1942	29 Mar. 1943
264	*Pargo*	1942	24 Jan. 1943	26 Apr. 1943
265	*Peto*	18 June 1941	30 Mar. 1942	21 Nov. 1942
266	*Pogy*	Oct. 1941	22 June 1942	10 Jan. 1943
268	*Puffer*	1942	22 Nov. 1942	22 Apr. 1943
276	*Sawfish*	1941	23 June, 1942	26 Aug. 1942
280	*Steelhead*	1942	11 Sep 1942	7 Dec. 1942
281	*Sunfish*	1941	2 May 1942	15 July 1942
283	*Tinosa*	1942	8 Oct. 1942	15 Jan. 1943
363	*Guittaro*		26 Sep. 1943	16 Jan. 1944
364	*Hammerhead*		27 Oct. 1943	1 Mar. 1946

(15 units marked **T** are non-operational submarines assigned to naval reserve training).

Guided-missile Submarines (SSG).

2 Converted "Balao" Class.

CUSK. 1951, U.S. Navy, Official.

SSG
337 CARBONERO

SSG
348 CUSK

Displacement : 1,526 tons (2,425 tons submerged)
Dimensions : 311½ × 27 × 17 feet
Machinery : Diesels : B.H.P. : 6,500 = 20 kts. (*surface*), H.P. : 2,750 = 10 kts. (submerged)

Notes.—Before conversion were of "Balao" class, see earlier page. *Carbonero* launched a guided missile in 1949. Conversion of *Cusk* for guided missile operation was completed and test carried out in June 1948. "Loon" missile is contained in a watertight steel hangar and takes off from a ramp fixed to the submarine's deck.

Name	*Builders*	*Launched*	*Completed*
Carbonero	Electric Boat Co. Groton.	15 Oct. 1944	7 Feb. 1945
Cusk	" " " "	28 July 1945	

1 Converted "Gato" Class.

SSG
282 TUNNY

Builders : Mare Island Navy Shipyard
Laid down : 10 Nov. 1941
Launched : 1 July 1942
Completed : 1 Sep. 1942

Displacement : 1,525 tons (2,452 tons submerged)
Dimensions : 311¾ × 27 × 17 feet
Machinery : Diesels B.H.P. : 6,500 = 21 kts. (*surface*), Electric motors, H.P: 2,750 = 10 kts. (*submerged*)

Notes.—Before conversion was of "Gato" class, see preceding page. Converted by Mare Island Navy Shipyard, Vallejo, California. Equipped with "Regulus" guided missiles, 80 feet long. See photo in Addenda.

Radar Picket Submarines (SSR).

6 Converted "Gato" Class.

6 Manitowoc S.B. Co.

SSR
267 POMPON
269 RASHER

SSR
270 RATON
271 RAY

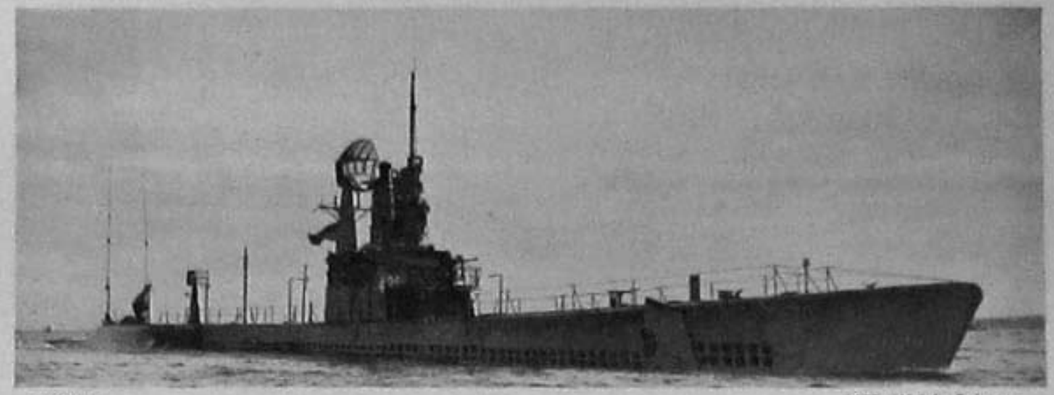
SSR
272 REDFIN
274 ROCK

Notes.—Before conversion were of "Gato" class, see preceding page. *Pompon*, *Ray* and *Redfin* were cut in two to permit the installation of new electronic equipment. Two new midsections lengthen them from 311 feet to 343 feet. *Redfin* commissioned 9 Jan. 1953.

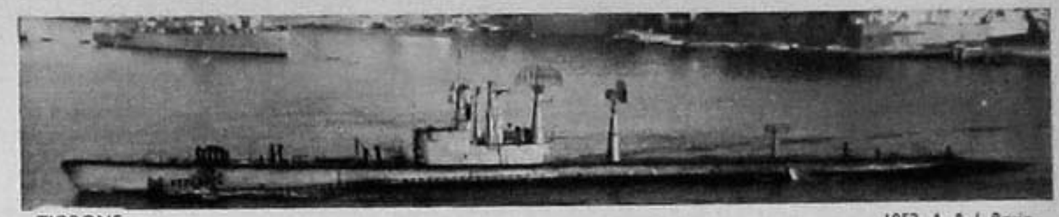
Name	*Laid down*	*Launched*	*Completed*
Pompon	Nov. 1941	15 Aug. 1942	17 Mar. 1943
Rasher	1942	23 Dec. 1942	8 June 1943
Raton	1942	24 Jan. 1943	13 July 1943
Ray	1942	28 Feb. 1943	27 July 1943
Redfin	1942	1943	31 Aug. 1943
Rock	1942	20 June 1943	26 Oct. 1943

Radar Picket Submarines (SSR)—(*Continued*).

3 Converted "Tench" Class.



REQUIN. 1953, Wright & Logan.



TIGRONE. 1952. A. & J. Pavia

3 Portsmouth Naval Shipyard

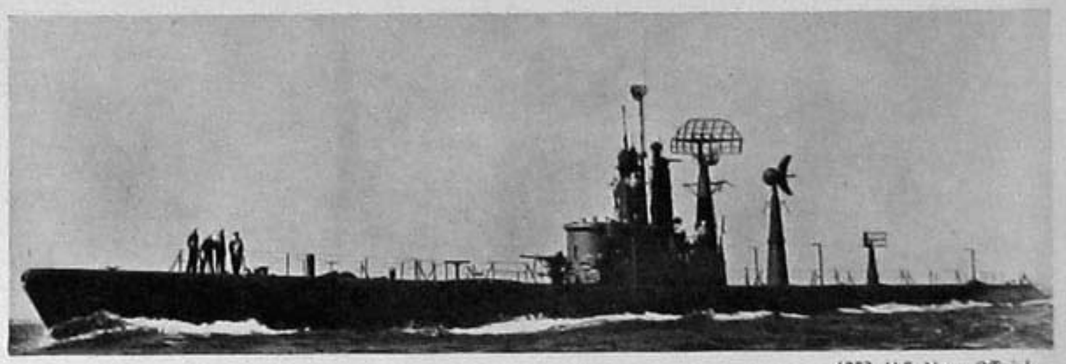
SSR
481 REQUIN (Jan, 1, 1945)

SSR
489 SPINAX (Nov. 20, 1945)

SSR
419 TIGRONE (July 20, 1944)

Notes.—Before conversion were of "Tench" class, see earlier page. *Tigrone* completed Feb. 21, 1949. All have reduced armament Units vary in detail.

1 Converted "Balao" Class.



1953, U.S. Navy, Official.

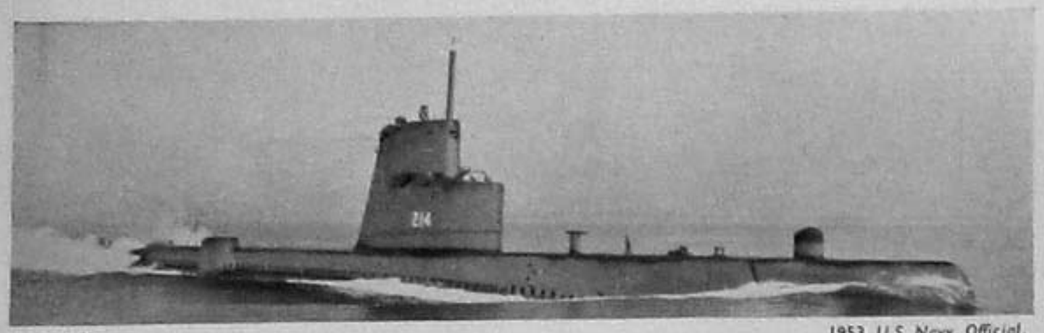
SSR
312 BURRFISH (ex-*Amillo*)

Builders : Electric Boat Co., Groton
Launched June 18 1943

Note.—For main particulars, see "Balao" class on earlier page.

Submarine Hunter Killers (Large Type). (SSK).

7 Converted "Gato" Class.



GROUPER. 1953, *U.S. Navy, Official.*

Electric Boat Co.

SSK
214 GROUPER
240 ANGLER

SSK
241 BASHAW
242 BLUEGILL

SSK
243 BREAM
244 CAVALLA
246 CROAKER

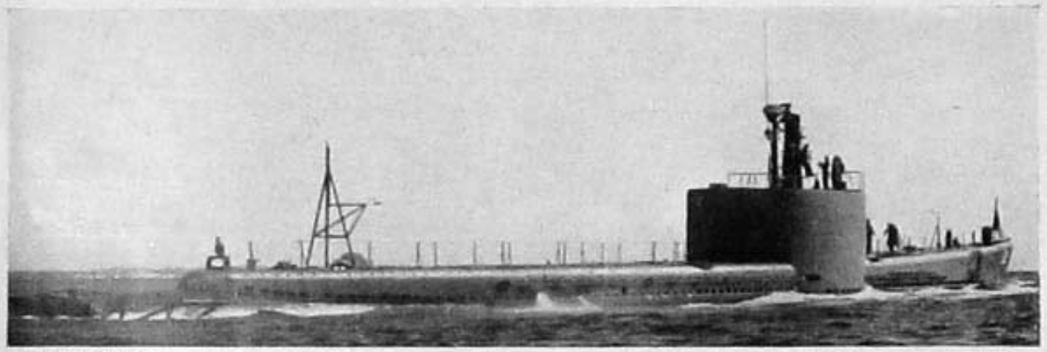
Displacement : 1,525 tons (2,542 tons *submerged*)
Dimensions : 311½ × 27 × 17 feet
Machinery : Diesels, B.H.P. : 6,500 = 21 kts. (*surface*), Electric motors, H.P. : 2,750 = 10 kts. (*submerged*).

Notes.—Completed as units of the "Gato" class, see earlier page. *Grouper* redesignated SSK (Large) in 1950, remainder in 1951. Contract for conversion of *Angler*, *Cavalla*, and *Crocker* awarded to Electric Boat Co., Groton, Connecticut, March 1952. *Bashaw* commissioned April 1953.

Name	*Laid down*	*Launched*	*Completed*	*Name*	*Laid down*	*Launched*	*Completed*
Angler	1942	4 July 1943	1 Oct. 1943	*Bream*	1943	17 Oct. 1943	24 Jan. 1944
Bashaw	1942	25 July 1943	25 Oct. 1943	*Cavalla*	1943	14 Nov. 1943	29 Feb. 1944
Bluegill	1942	8 Aug. 1943	11 Nov. 1943	*Crocker*	1943	19 Dec. 1943	21 Apr. 1944
				Grouper	28 Dec. 1940	27 Oct. 1941	12 Feb. 1942

Experimental Submarines (AGSS).

1 Converted "Gato" Class.



FLYING FISH (see top of next column). 1952, *U.S. Navy, Official.*

Experimental Submarines (AGSS)—*continued.*

AGSS
229 FLYING FISH

Builders: Portsmouth Navy Yard
Laid down : 6 Dec., 1940
Launched : 9 July, 1941
Completed : 10 Dec., 1941

Displacement : 1,800 tons *surface* ; 2,400 tons *submerged*
Dimensions : 311 × 27 × — feet
Machinery : All original main machinery except batteries
Complement : 80

Notes.—Completed as a unit of the "Gato" class, see earlier page. Flagship of Commander Submarines, Atlantic Fleet 1945-51. Classification changed due to installation of experimental sound equipment.
During 1951-52 operated with the Underwater Sound Laboratory on various projects. Officially stated by Department of Defense to be the first submarine in history to make 5,000 dives (recorded in Long Island Sound, 29 Feb. 1952) and U.S. Navy's most durable submarine.

(Electronic, Sonar and Target Types).

2 Converted "Balao" Class.

SEACAT. *Added* 1951, *U.S. Navy, Official.*

BAYA. *Added* 1951, *U.S. Navy, Official.*

AGSS
318 BAYA

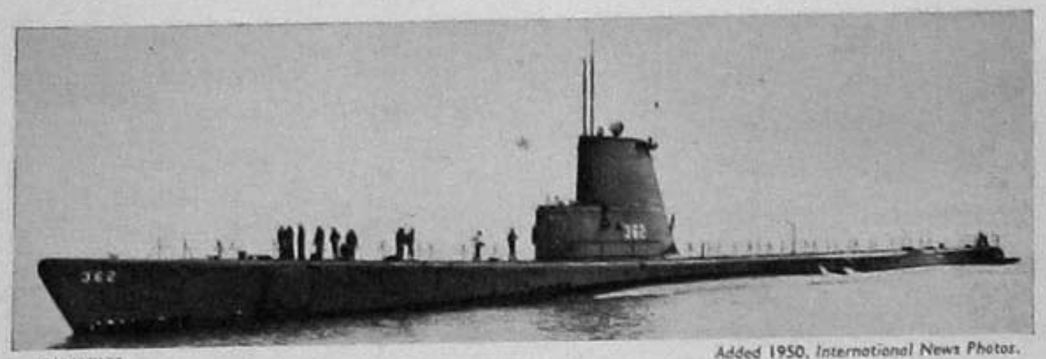
AGSS
299 MANTA

Notes.—Were of "Balao" class before conversion. Now employed experimentally and rated AGSS. Auxiliary, General, Submarine. Certain alterations made to these submarines are such that they can no longer be considered as combatant vessels. *Baya* has been converted to a laboratory submarine for electronic experiments and *Manta* to a target submarine. *Seacat* was used for experimental sonar equipment but has now reverted to SS and is listed on an earlier page. The torpedo tubes and appendages have been made inoperative and the vessels could not engage in offensive operations without undergoing extensive modifications to restore them to their original condition.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Baya	Electric Boat Co., Groton	1942	2 Jan. 1944	20 May 1944
Manta	Cramp Shipbuilding Co.	1942	7 Nov. 1943	18 Dec. 1944

Submarine Oiler (SSO).

1 Converted "Balao" Class.



GUAVINA. *Added 1950, International News Photos.*

SSO
362 GUAVINA

Builders :	Manitowoc Shipbuilding Co.
Launched :	29 Aug., 1943
Completed :	23 Dec., 1943

Notes.—Before conversion was of "Balao" class, see earlier page. Fitted out at Mare Island Naval Shipyard at a cost of $2,000,000, with exterior tanks for bulk liquids and special compartments which permit cargo in watertight cases to be discharged while the craft is submerged. Beam increased from 27 to 37 feet. Recommissioned 1 Feb., 1950. Now classified as Submarine Oiler, SSO.

Cargo Submarine (ASSA).

Amphibious Supply-carrying Type.

1 Converted "Balao" Class.

Added 1951, U.S. Navy, Official.

ASSA
317 BARBERO

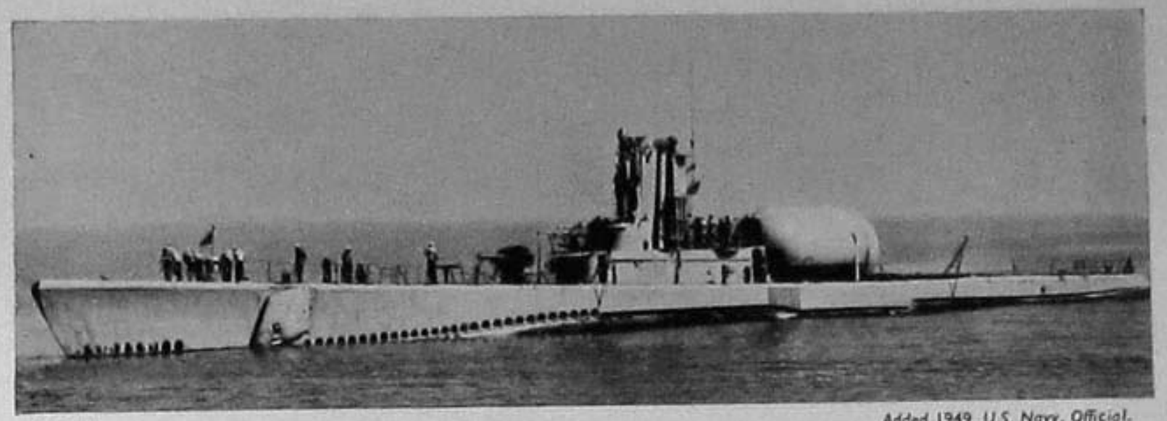
Builders	Electric Boat Co., Groton
Launched :	12 Dec., 1943
Completed :	29 Apr., 1944

Notes.—Was of "Balao" class before conversion, see earlier page. Now classed as "Amphibious Vessel, Submarine Cargo", ASSA.

Transport Submarines (ASSP).

Amphibious Troop-carrying Type.

2 Converted "Balao" Class.



PERCH. *Added 1949, U.S. Navy, Official.*

ASSP
313 PERCH

ASSP
315 SEALION

Displacement:	1,526 tons
Dimensions :	311¼ × 27 × 17 feet
Machinery :	Diesels. B.H.P. : 6,500 = 20 kts. (*surface*). H.P. : 2,750 = 10 kts. (*submerged*)

Notes.—*Perch* converted at Mare Island Naval Shipyard, *Sealion* converted at San Francisco Naval Shipyard, to carry 160 troops each. The large cylindrical chamber abaft the conning tower (in right centre of photo) on the after deck is a water-tight storage space for the stowage of amphibious landing equipment. Both vessels were formerly fleet-type submarines of "Balao" class, see earlier page. Now classed as "Amphibious Vessels, Submarines Transport." Conversion of *Sealion* completed 15 Dec., 1948.

Name	*Builders*	*Laid down*	*Launched*	*Completed*
Perch	Electric Boat Co., Groton	1942	12 Sep. 1943	7 Jan. 1944
Sealion		1942	31 Oct. 1943	8 Mar. 1944

Training Submarines.

Non-Operational Units Assigned to Naval Reserve.

1 "G" Class **206 GAR** (Nov. 7, 1941)	Displacement : 1,475 tons	5 "P" Class **179 PLUNGER** (July 8, 1936) **178 PERMIT** (Oct. 5, 1936)	Displacement : 1,330 tons
2 "T" Class **199 TAUTOG** (Jan. 27, 1940) **198 TAMBOR** (Dec. 20, 1939)	Displacement : 1,475 tons	**175 TARPON** (Sept. 4, 1935	Displacement : 1,315 tons
1 "S" Class **183 SEAL** (Aug. 25, 1937)	Displacement: 1,450 tons	**173 PIKE** (Sept. 12, 1935) **172 PORPOISE** (June 20, 1935)	Displacement : 1,310 tons

Notes.—A total of 24 submarines are assigned to Naval Reserve Training. In addition to the above 9 vessels they comprise *Blackfish, Drum, Gato, Greenling, Guardfish, Gurnard, Haddock, Kingfish, Pargo, Puffer, Sawfish, Shad, Silversides,* Steelhead and *Sunfish*, all fifteen being units of the "Gato" class, see earlier page.

High Speed Transports (APD).

92 Converted Destroyer Escorts.

APD	Ex-DE	
46	66	**AMESBURY** (June 5, 1943)
97	281	**ARTHUR L. BRISTOL** (Feb. 19, 1940)
132	716	**BALDUCK** (Oct. 27, 1944)
57	161	**BARBER** (May 20, 1943)
39	576	**BARR** (Dec. 28, 1942)
73	672	**BASSETT** (Jan. 15, 1944)
127	711	**BEGOR** (May 25, 1944)
109	599	**BELET** (March 3, 1944)
119	722	**BEVERLY W. REID** (March 4, 1944)
48	69	**BLESSMAN** (June 19, 1943)
40	637	**BOWERS** (Oct. 31, 1943)
139	709	**BRAY** (April 15, 1944)
93	234	**BROCK** (Jan. 20, 1944)
78	693	**BULL** (March 25, 1943)
79	694	**BUNCH** (May 29, 1943)
133	717	**BURDO** (Nov. 25, 1944)
65	215	**BURKE** (April 3, 1943)
136	720	**CARPELLOTTI** (March 10, 1945)
128	712	**CAVALLARO** (June 15, 1944)
37	53	**CHARLES LAWRENCE** (Feb. 16 1943
62	208	**COFER** (Sept. 6, 1943)
130	714	**COOK** (Aug. 26, 1944)
88	227	**CREAD** (Feb. 12, 1944)
87	226	**CROSLEY** (Feb. 12, 1944)
38	54	**DANIEL T. GRIFFIN** (Feb. 25, 1943)
123	690	**DIACHENKO** (Aug. 15, 1944)
129	713	**DONALD W. WOLF** (July 22, 1944)
118	721	**DON O. WOODS** (Feb. 19, 1944)
113	603	**EARHART** (May 12, 1945)
107	597	**EARLE B. HALL** (March 1, 1944)
66	216	**ENRIGHT** (May 29, 1943)
77	677	**FRAMENT** (June 28, 1943)
116	606	**FRANCOVICH** (June 5, 1945)
42	60	**GANTNER** (April 17, 1943)
43	62	**GEORGE W. INGRAM** (May 8, 1943
126	710	**GOSSELIN** (May 4, 1944)
84	792	**HAINES** (Aug. 26, 1943)
108	598	**HARRY L. CORL**
80	212	**HAYTER**
86	794	**HOLLIS** (Sept. 11, 1943)
51	155	**HOPPING** (March 10, 1943)
124	691	**HORACE A. BASS** (Sept. 12, 1944)
112	602	**HUNTER MARSHALL** (May 5, 1945)
44	63	**IRA JEFFERY** (May 15, 1943)
72	671	**JACK C. ROBINSON** (Jan. 8, 1944)
74	673	**JOHN P. GRAY** (March 18, 1944)
94	235	**JOHN Q. ROBERTS** (Feb. 11, 1944)
53	211	**JOSEPH C. HUBBARD**
49	70	**JOSEPH E. CAMPBELL** (June 26, 1943)
117	674	**JOSEPH M. AUMAN** (Feb. 5, 1944)
110	600	**JULIUS A. RAVEN** (March 3, 1944)
61	207	**KEPHART** (Sept. 6, 1943)
91	232	**KINZER** (Dec. 9, 1943)
90	229	**KIRWIN** (June 16, 1944)
134	718	**KLEINSMITH** (Jan. 27, 1945)
120	687	**KLINE** (June 27, 1944)
101	591	**KNUDSON** (Feb. 5, 1944)
55	159	**LANING** (July 4, 1943)
45	65	**LEE FOX** (May 29, 1943)
60	206	**LIDDLE** (Aug. 9, 1943)
63	209	**LLOYD** (Oct. 23, 1943)
56	160	**LOY** (July 4, 1943)
105	595	**MYERS** (Feb. 15, 1944)
59	205	**NEWMAN** (Aug. 9, 1943)
71	670	**ODUM** (Jan 19, 1944)
70	669	**PAVLIC** (Dec. 18, 1943)
96	237	**RAY K. EDWARDS** (Feb. 19, 1944)
121	688	**RAYMOND W. HERNDON** (July15, 1944)
102	592	**REDNOUR** (Feb. 12, 1944)
52	156	**REEVES** (April 22, 1943)
92	233	**REGISTER** (Jan. 20, 1944)
100	590	**RINGNESS** (Feb. 5, 1944)
115	605	**ROGERS BLOOD**
89	228	**RUCHAMKIM** (June 15, 1944)
85	793	**RUNELS** (Sept. 4, 1943)
76	676	**SCHMITT** (May 29, 1943)
122	689	**SCRIBNER** (Aug. 1, 1944)
50	154	**SIMS** (Feb. 6, 1943)
81	789	**TATUM** (Aug. 7, 1943)
103	593	**TOLLBERG** (Feb. 12, 1944)
98	282	**TRUXTON** (March 9, 1944)
99	283	**UPHAM** (March 9, 1944)
111	601	**WALSH** (April 28, 1945)
106	596	**WALTER B. COBB** (Feb. 23, 1944)
114	604	**WALTER S. GORKA** (May 26, 1945)
131	715	**WALTER X. YOUNG** (Sept. 30, 1944)
125	692	**WANTUCK** (Sept. 25, 1944)
75	675	**WEBER** (May 1, 1943)
135	719	**WEISS** (Feb. 17, 1945)
104	594	**WILLIAM J. PATTISON** (April 17, 1944)
95	236	**WILLIAM M. HOBBY** (Feb. 11, 1944)
69	668	**YOKES** (Nov. 27, 1943)

Displacement :	1,400 tons (2,130 tons *full load*)
Dimensions :	300 (*w.l.*), 306 (*o.a.*) × 37 × 12¼ (*max.*) feet
Guns :	1—5 inch, 38 cal., 6—40 mm. AA.
Machinery :	Turbo-electric. 2 shafts. S.H.P. : 12,000 = 23·6 kts.
Boilers :	2 Express
Complement:	214 + 162 troops

General Notes.—Former destroyer escorts converted and officially rated as High-Speed Transports. Carry four LCVP (Landing Craft, Vehicle-Personnel). Seven proposed conversions abandoned. APD 82, *Borum* (DE 790) and APD 83, *Maloy* (DE 791) not converted. *Dyrik*, DE 666, *Jenks*, DE 665, and *Scott*, DE 214, were also originally assigned as APD (68, 67 and 64 respectively). War loss : *Bates* (APD 47, ex-DE 68). Three, APD 54, *Chase* (DE 158), APD 41, *England* (DE 635), and APD 58, *Witter* (DE 636), scrapped.

Appearance Note.—Those converted from "Buckley" type retained high bridge, but were given a 5-inch gunhouse forward and lattice mainmast, for twin cargo booms.

LLOYD (lattice main). 1953, *A. & J. Pavia.*

EARLE B. HALL. *Added 1952, U.S. Navy, Official.*

CARPELLOTTI. 1952, *Ted Stone.*

Escort Patrol Vessels.

New Construction.—Contracts have been awarded for the construction of six steel hulled 640 tons, 180 feet diesel driven escort patrol vessels (PCEs). 4 to Netherlands, PCE 1604-1607, 2 to Denmark, PCE 1608-1609, under MDAP.

29 Steel Type.

PCE 904. 1952, *Mr. Vagn Worm.*

PCER 852. *Added 1949, U.S. Navy, Official.*

PCE 842	**PCE 874**	**PCE 899**	**PCER 849**	**PCER 855**	**PCEC 873**
PCE 843	**PCE 880**	**PCE 900**	**PCER 850**	**PCER 856**	**PCEC 877**
PCE 845	**PCE 892**	**PCE 902**	**PCER 851**	**PCER 857**	**PCEC 882**
PCE 846	**PCE 894**	**PCE 903**	**PCER 852**		**PCEC 886**
PCE 870	**PCE 895**	**PCE 904**	**PCER 853**		**PCEC 896**
					PCEC 898

Displacement :	640 tons (903 tons *full load*)
Dimensions :	180 (*w.l.*), 184½ (*o.a.*) × 33 × 9½ feet
Guns :	1—3 inch d.p., 6—40 mm. AA. 4 D.C.T. (PCER type have 4 fewer 40 mm.)
Machinery :	Diesel, 2 shafts. B.H.P. : 2,400 = 16 kts.

Notes.—Built 1942-43 by Pulman Standard Mfg. Co., Albina Engine & Machinery Works and Willamette Iron & Steel Corpn. "PCER" type carry hospital equipment and personnel, complement being 107, with accommodation for 57 patients. *PCE* 827-841 were transferred to Royal Navy, but subsequently placed on sale list. Others were transferred to China, Cuba and Mexico. *PCE* 873-898 are redesignated *PCEC*, having been reassigned to amphibious forces, and have had additional equipment installed which removes them from the category "Patrol" vessels and places them in the category "Escort Control Vessels".

Patrol Motor Gunboats.

New Construction.—5 Patrol Motor Gunboats, 110 foot, wooden, diesel-driven, carrying 1—60 mm. mortar, 2—40 mm. guns, 4—50 cal. MG., are being built by MacDonell Boats, St. Mary's, Ga., at a cost of $856,110.

PGM 31 (ex-*PC* 1567)

Builders :	Leatham Smith
Launched :	23 Sept., 1944
Displacement:	280 tons
Dimensions :	170 (*w.l.*), 173½ (*o.a.*) × 23 × 7½ feet
Guns :	1—3 inch d.p., 2—40 mm. AA. and rockets
Machinery :	2 sets G.M. 2 stroke-Diesels. 2 shafts. B.H.P. : 2,880 = 20 kts.
Complement :	65

Note.—In Atlantic Reserve Fleet.

Motor Torpedo Boats.

PT 810. 1951, *courtesy, "Our Navy."*

PT 809 (Electric Boat Co., Groton)
PT 810 (Bath Iron Works Corporation)
PT 811 (John Trumpy & Sons, Annapolis)
PT 812 (Philadelphia Naval Shipyard)

Displacement :	75 tons
Dimensions :	95 to 105 feet length, 24 to 25 feet beam
Guns :	2—40 mm., 4—20 mm.

Notes.—Built to an experimental design by four different builders. Of all aluminium construction. Larger than wartime PTs with greater displacement, range, fire power and stability. PT 809 launched Aug. 7, 1950. PT 811 launched Nov. 30, 1950, and accepted 6 Mar., 1951. PT 810 is an aluminium hulled boat of half-welded and half-riveted structure. Constitute Motor Torpedo Boat Squadron One. Each of different hull design and each embodies different characteristics. Propelled by 4 engines instead of 3 as in older boats. At least one uses gasoline fuel.

PT 613	**PT 616**	**PT 619**	**PT 620**
Displacement :	33 tons *standard* (56 tons *full load*)		
Dimensions :	80½ × 20½ × 5 feet		
Guns :	1—40 mm. AA., 2—20 mm. AA.		
Tubes :	4 torpedo, 4 D.C.		
Machinery :	Packard. 3 shafts. B.H.P. : 4,050 = 41 kts. (*light*)		
Complement :	14		

Notes.—All built by the Electric Boat Co., Bayonne, N.J., during the war (1945). Plywood hulls. All laid up in Atlantic Reserve Fleet. Sole survivors of 774 boats completed (808 ordered), 70 being war losses, 219 transferred to Russia, and remainder sold or scrapped after the war.

Submarine Chasers.

90 Steel Type.

PC 600.

Added 1949, U.S. Navy, Official.

10 Albina Engine & Machinery Works

PC 569 (22 Jan. 1942)
PC 571 (2 Feb. 1942)
PC 572 (28 Feb. 1942)
PC 579 (29 Apr. 1942)
PC 580 (29 Apr. 1942)
PC 581 (8 July 1942)
PC 817 (4 Mar. 1943)
PC 1077 (29 July 1942)
PC 1078 (25 Aug. 1942)

6 Brown S.B. Co.

PC 565 (27 Feb. 1942)
PC 566 (21 Mar. 1942)
PC 567 (11 Apr. 1942)
PC 568 (25 Apr. 1942)
PC 1252 (30 Sep. 1942)
PC 1254 (31 Oct. 1942)

10 Commercial Iron Works

PC 597 (7 Sep. 1942)
PC 776 (27 Oct. 1942)
PC 777 (11 Nov. 1942)
PC 778 (26 Nov. 1942)
PC 779 (7 Dec. 1942)
PC 780 (16 Dec. 1942)
PC 781 (24 Dec. 1942)
PC 782 (31 Dec. 1942)
PC 785 (23 Jan. 1943)
PC 808 (27 Nov. 1943)

19 Consolidated Shipbuilding Corpn.

PC 483 (25 Oct. 1941)
PC 484 (6 Dec. 1941)
PC 486 (25 Jan. 1942)
PC 487 (28 Feb. 1942)
PC 564 (12 Apr. 1942)
PC 601 (23 May 1942)
PC 602 (13 June 1942)
PC 603 (30 June 1942)
PC 1191 (25 July 1942)
PC 1193 (29 Aug. 1942)
PC 1196 (24 Oct. 1942)
PC 1198 (12 Dec. 1942)
PC 1201 (14 Feb. 1943)
PC 1208 (15 Sep. 1943)
PC 1209 (7 Oct. 1943)
PC 1237 (3 Apr. 1943)
PC 1240 (26 June 1943)
PC 1546 (20 Jan. 1944)
PC 1547 (8 Feb. 1944)

1 Dravo Corporation

PC 592 (27 June 1942)

10 Defoe Boat & Motor Works

PC 586
PC 1119
PC 1120
PC 1135
PC 1138
PC 1140
PC 1141
PC 1142
PC 1145
PC 1149

6 George Lawley & Sons

PC 465 (28 Mar. 1942)
PC 470
PC 617
PC 618
PC 619 (15 Aug. 1942)
PC 1087

3 Gibbs Gas Engine Co.

PC 1181
PC 1182 (19 June 1943)
PC 1186 (9 June 1944)

1 Jeffersonville Boat & Machine Co.

PC 560 (17 Mar. 1942)

14 Leatham D. Smith S.B. Co.

PC 588 (3 May 1942)
PC 822
PC 1172
PC 1173 (26 June 1943)
PC 1174 (22 July 1943)
PC 1175 (7 Aug. 1943)
PC 1176 (28 Aug. 1943)
PC 1179 (6 Nov. 1943)
PC 1225 (7 Sep. 1942)
PC 1228 (18 Nov. 1942)
PC 1229 (20 Dec. 1942)
PC 1262 (27 Mar. 1943)
PC 1263
PC 1569 (Dec. 1944)

4 Luders Marine Construction Co.

PC 606
PC 1212
PC 1213 (22 May 1943)
PC 1216

3 Nashville Bridge Co.

PC 620
PC 1242
PC 1246

4 Sullivan Dry Dock & Repair Co.

PC 554 (30 May 1942)
PC 1170 (16 Oct. 1943)
PC 1232 (12 Dec. 1942)
PC 1233 (11 Jan. 1943)

Displacement :	280 tons (450 tons *full load*)
Dimensions :	170 (*w.l.*), 173½ (*o.a.*) × 23 × 7½ (*mean*, 10½ (*max.*) feet
Guns :	1—3 inch d.p., 1—40 mm. AA., 2 to 5—20 mm. AA., 4 D.C.T.
Machinery :	2 G.M. 2-stroke Diesels. 2 shafts. B.H.P. : 2,560 to 2,880 = 20 kts.
Complement :	80

Notes.—All the above are of the same general design with minor differences. Units of this class have been transferred to various other navies. PC 469 was disposed of. 19 of these vessels are now rated as Submarine Chasers (Control) (PCC)—see following page. PC 1086, 1130, 1139, 1143, 1144, 1146, 1167, 1171 stricken from Navy List 1951. PC 461 and PC 786 are on the disposal list. PC 485 and PC 600 transferred to Republic of Korea Navy. PC 495, 570, 575, 609, 616, 1185, 1218 and 1253 transferred to Thailand Navy.

19 Steel (Control) Type.

3 Albina

PCC 582 (15 July 1942)
PCC 1079 (25 Aug. 1942)
PCC 1081 (29 Aug. 1942)

1 Brown

PCC 1251 (12 Sep. 1942)

3 Defoe

PCC 1125
PCC 1136
PCC 1137

2 Lawley

PCC 463 (17 Feb. 1942)
PCC 466 (29 Apr. 1942)

6 L. D. Smith

PCC 589 (7 June 1942)
PCC 1177 (18 Sep. 1943)
PCC 1178 (5 Oct. 1943)
PCC 1180 (27 Nov. 1943)
PCC 1230 (10 Mar. 1943)
PCC 1260 (16 Jan. 1943)

1 Nashville

PCC 1244

3 Sullivan

PCC 1168 (3 July 1943)
PCC 1169 (16 Oct. 1943)
PCC 1231 (12 Dec. 1942)

Displacement:	280 tons *standard* (450 tons *full load*)
Dimensions:	173½ (*o.a.*) × 23 × 10½ (*max.*) feet
Guns:	1—3 inch d.p., 1—40 mm. AA., 2—20 mm. AA, 4 D.C.T.
Machinery:	Diesels. 2 shafts. B.H.P.: 2,800 = 20 kts.
Complement:	80

1 Steel Type (ex-Minesweeper).

PC 1590 (ex-*Constant*, ex-AM 86)

Builders: Commercial Iron Works

Displacement:	295 tons
Dimensions:	170 (*w.l.*), 173½ (*o.a.*) × 23 × 7½ feet
Guns:	1—3 inch, 50 cal., d.p., 1—40 mm. AA.
Machinery:	Diesel. 2 shafts. B.H.P.: 1,770 = 16.5 kts.
Complement:	65

Notes.—Formerly a minesweeper but reclassified in 1944, and subsequently assigned to Naval Reserve. War loss : PC 1603.

14 Wooden Type.

1944, U.S. Navy, Official

1 Burger Boat Co.

PCS 1423 (24 Jan. 1944)

1 Gibbs Gas Engine Co.

PCS 1431 (24 Mar. 1944)

1 Harbor B.B. Co.

PCS 1444 (ex-YMS 474)

1 Hubbard's South Coast Co.

PCS 1401 (ex-YMS 452)

1 Robert Jacob, Inc.

PCS 1392 (13 Oct. 1943)

1 Stadium Yacht Basin

PCS 1413 (24 July 1943)

8 Wheeler S.B. Corpn.

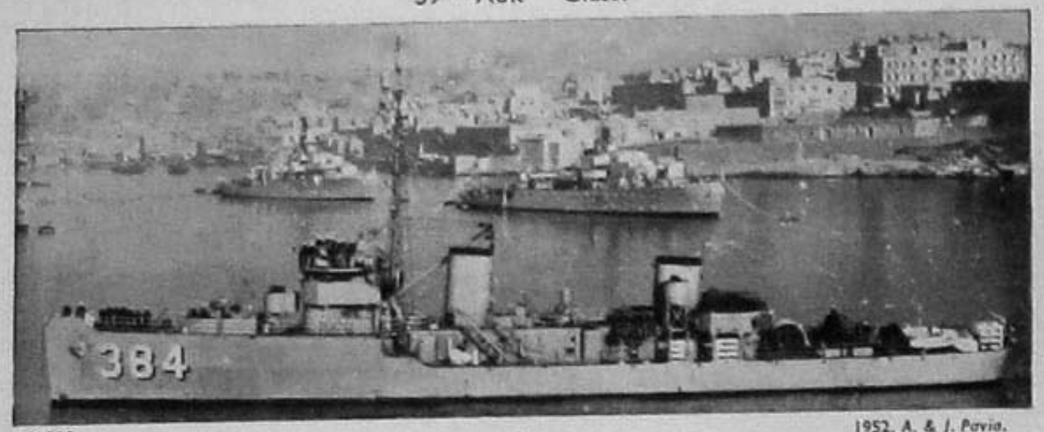
PCS 1376 **PCS 1384**
PCS 1378 **PCS 1385**
PCS 1380 **PCS 1386**
PCS 1383 **PCS 1387**

Displacement :	251 tons (338 tons *full load*)
Dimensions :	136 × 24½ × 8½ (*max.*) feet
Guns :	1—3 inch d.p., 1—40 mm. AA., 2—20 mm. AA. Many D.C.
Machinery :	2 G.M. Diesels. B.H.P. : 800 = 14 kts.
Complement :	60

Notes.—Built 1942-43. Five vessels of this class were reclassified as minesweepers and now bear names *Sanderling*, *Swallow*, *Swan*, *Verdine*, *Waxbill*, see earlier page. Former PCS 1465 is now *Minah* AMCU 14, see page 427. PCS 1426 and PCS 1448 were loaned to Republic of Korea Navy, 9 June 1952, PCS 1445 and 1446 26 May 1952.

Ocean Minesweepers (AM).

59 "Auk" Class.



1952, A. & J. Pavia.

SPRIG.

14 *American S.B. Co.*
AM
112 SEER (May 23, 1942)
116 SPEED (April 18, 1942
384 SPRIG (Sept. 15, 1944)
114 STAFF (June 17, 1942)
118 STEADY (June 6, 1942)
117 STRIVE (May 16, 1942)
383 SURFBIRD (Aug. 31, 1944)
119 SUSTAIN (June 23, 1942)
385 TANAGER (Dec. 9, 1944)
386 TERCEL (Dec. 16, 1944)
387 TOUCAN (Sept. 15, 1944)
388 TOWHEE (Jan. 9, 1945)
389 WAXWING (March 10, 1945)
390 WHEATEAR (April 21, 1945)

Associated Shipbuilders
322 SPEAR (Feb. 25, 1943)
323 TRIUMPH (Feb. 25, 1943)
324 VIGILANCE (April 5, 1943)

4 *Defoe S.B. Co.*
58 BROADBILL (May 21, 1942)
59 CHICKADEE (July 20, 1942)
60 NUTHATCH (Sept. 16, 1942)
60 PHEASANT (Oct. 24, 1942)

13 *General Engineering & D.D. Co.*
AM
340 ARDENT (June 22, 1943)
314 CHAMPION (Dec. 12, 1942)
315 CHIEF (Jan. 5, 1943)
316 COMPETENT (Jan. 9, 1943)
317 DEFENSE (Feb. 18, 1943)
318 DEVASTATOR (April 19, 1943)
319 GLADIATOR (May 7, 1943)
100 HEED (June 19, 1942)
101 HERALD (July 4, 1942)
320 IMPECCABLE (May 21, 1943)
102 MOTIVE (Aug. 17, 1942)
103 ORACLE (Sept. 30, 1942)
64 STARLING (April 11, 1942)

9 *Gulf S.B. Corpn.*
341 DEXTROUS (Jan. 17, 1943)
379 ROSELLE (Aug. 29, 1945)
380 RUDDY (Oct. 29, 1944)
381 SCOTER (Sept. 26, 1945)
382 SHOVELER (Dec. 10, 1945)
126 TOKEN (March 28, 1942)
127 TUMULT (April 19, 1942)
128 VELOCITY (April 19, 1942)
131 ZEAL (Sept. 15, 1942)

2 *John H. Mathis Co.*
AM
120 SWAY (Sept. 29, 1942)
122 SWIFT (Dec. 5, 1942)

1 *Norfolk Navy Yard*
57 AUK (Aug. 26, 1941)

2 *Pennsylvania Shipyard*
104 PILOT (July 5, 1942)
105 PIONEER (July 26, 1942)

9 *Savannah Machine & Foundry Co.*
372 MURRELET (Dec. 29, 1944)
373 PEREGRINE (Feb. 17, 1945)
374 PIGEON (March 28, 1945)
375 POCHARD (June 11, 1944)
376 PTARMIGAN (July 15, 1944)
377 QUAIL (Aug. 20, 1944)
378 REDSTART (Oct. 18, 1944)
123 SYMBOL (July 2, 1942)
124 THREAT (Aug. 15, 1942)

2 *Winslow Marine Ry. & S.B. Co.*
110 REVENGE (ex-*Right*, Nov. 7, 1942)
111 SAGE (Nov. 21, 1942)

Displacement :	890 tons (1,250 tons *full load*)
Dimensions :	215 (*w.l.*) 221¼ (*o.a.*) × 32¼ × 11 (*max.*) feet
Guns :	1—3 inch d.p., 2 or 4—40 mm. AA.
Machinery :	Diesel, with electric drive. 2 shafts. B.H.P. ; 2,976-3,532 = 18 kts.
Complement :	105 (war)

General Notes.—28 units of above type, transferred to Royal Navy in 1943-44 under Lend-Lease scheme, and returned to U.S. or acquired by Allied Navies, included H.M.S. *Antares, Catherine, Chamois, Chance, Clinton, Combatant, Cynthia, Elfreda, Fairy, Florizel, Foam, Frolic, Friendship, Gazelle, Gorgon, Grecian, Jasper, Persian, Pique* (ex-*Celerity*), *Steadfast, Strenuous* (ex-*Vital*), *Tattoo, Tourmaline* (ex-*Usage*). War losses *Minivet, Portent, Sentinel, Skill, Skylark, Swallow, Swerve, Tide.*
Prevail (AM 107), *Pursuit* (AM 108), *Requisite* (AM 109) and *Sheldrake* (AM 62) were reclassified as survey ships (AGS.) early in 1952 (see later page)

1 "Raven" Type.

AM
55 RAVEN

Builders :	Norfolk Navy Yard
Launched :	24 Aug. 1940
Displacement :	810 tons (1,040 tons *full load*)
Dimensions :	215 (*w.l.*), 220½ (*o.a.*) × 32 × 9½ (*mean*), 10¾ (*max.*) feet
Guns :	1—3 inch d.p., 2—40 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,800 = 17 kts.
Complement :	105

Note.—Otherwise similar to "Auk" class.

Fleet Minesweepers (AM).

57 "Admirable" Class.

5 *American S.B. Co.*
AM
223 DOUR (March 25, 1944)
224 EAGER (June 10, 1944)
255 JUBILANT (Feb. 20, 1943)
256 KNAVE (March 13, 1943)
261 MAINSTAY (July 31, 1943)

9 *Associated Shipbuilders*
304 SCURRY (ex-*Skurry*, Oct. 11, 1943)
302 SIGNET (Aug. 16, 1943)
303 SKIRMISH (Aug. 16, 1943)
306 SPECTER (Feb. 15, 1944)
307 STAUNCH (Feb. 15, 1944)
308 STRATEGY (March 28, 1944)
309 STRENGTH (March 28, 1944)
310 SUCCESS (May 11, 1944)
311 SUPERIOR (May 11, 1944)

5 *General Engineering & D.D. Co.*
283 RANSOM (Sept. 18, 1943)
284 REBEL (Oct. 28, 1943)
285 RECRUIT (Dec. 11, 1943)
288 REIGN (May 29, 1944)
289 REPORT (Aug. 8, 1944)

2 *Gulf S.B. Corpn.*
AM
269 OPPONENT (June 12, 1943)
280 PROWESS (Feb. 17, 1944)

2 *Puget Sound Bridge Co.*
232 EXECUTE (June 22, 1944)
233 FACILITY (June 22, 1944)

4 *Savannah Machine & Foundry Co.*
249 INCREDIBLE (Nov. 21, 1943)
252 INSTILL (March 5, 1944)
253 INTRIGUE (April 8, 1944)
254 INVADE (Feb. 6, 1944)

6 *Tampa S.B. Co.*
214 CRAG (ex-*Craig*, March 21, 1943)
215 CRUISE (March 21, 1943)
218 DENSITY (Feb. 6, 1944)
219 DESIGN (Feb. 6, 1944)
220 DEVICE (May 21, 1944)
221 DIPLOMA (May 21, 1944)

13 *Williams Iron & Steel Corpn.*
AM
159 CHANGE (Dec. 15, 1942)
160 CLAMOUR (Dec. 24, 1942)
161 CLIMAX (Jan. 9, 1943)
162 COMPEL (Jan. 16, 1943)
163 CONCISE (Feb. 6, 1943)
164 CONTROL (Jan. 28, 1943)
165 COUNSEL (Feb. 17, 1943)
356 CREDDOCK (July 22, 1944)
357 DIPPER (July 26, 1944)
362 GADWALL (July 15, 1943)
364 GRAYLAG (Dec. 4, 1943)
365 HARLEQUIN (June 7, 1944)
366 HARRIER (June 7, 1944)

11 *Winslow Marine Rly. & S.B. Co.*
238 GARLAND (Feb. 20, 1944)
239 GAYETY (March 19, 1944)
240 HAZARD (May 21, 1944)
241 HILARITY (July 30, 1944)
242 INAUGURAL (Oct. 1, 1944)
296 SCOUT (May 2, 1943)
297 SCRIMMAGE (May 16, 1943)
298 SCUFFLE (Aug. 8, 1943)
299 SENTRY (Aug. 15, 1943)
300 SERENE (Oct. 31, 1943)
301 SHELTER (Nov. 14, 1943)

Displacement :	650 tons (945 tons *full load*)
Dimensions :	180 (*w.l.*) ,184½ (*o.a.*) × 33 × 10 (*max.*) feet
Guns :	1—3 inch d.p., 4—40 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,710 = 15 kts.
Complement :	104

Notes.—Appearance varies according to builder ; some have a funnel. *Crag* and *Cruise*, completed by Charleston Navy Yard, are armed only with 2—40 mm. AA. *Salute* was lost in Second World War. *Pirate* (AM 275) and *Pledge* (AM 277) of this class struck mines and sank off Wosen, Korean east coast, on Oct. 12, 1950. Various others cancelled or sold. 34 tranferred to Russian Navy and 12 to Chinese Navy.

Wooden Minesweepers (AM).

59 "Agile" Class + 18 New Construction MDAP.

AM
421 AGILE
422 AGGRESSIVE (4 Oct. 1952)
423 AVENGE (15 Mar. 1953)
424 BOLD
425 BULWARK
426 CONFLICT
427 CONSTANT
428 DASH (20 Sep. 1952)
429 DETECTOR
430 DIRECT
431 DOMINANT
432 DYNAMIC
433 ELUSIVE
434 EMBATTLE
435 ENDURANCE
436 ENERGY (13 Feb. 1953)
437 ENHANCE (11 Oct. 1952)

AM
438 ESTEEM (20 Dec. 1952)
439 EXCELL
440 EXPLOIT
441 EXULTANT
442 FEARLESS
443 FIDELITY
444 FIRM
445 FORCE
446 FORTIFY
447 GUIDE
448 ILLUSIVE (12 July 1952)
449 IMPERVIOUS (29 Aug. 1952)
455 IMPLICIT
456 INFLICT
457 LOYALTY
458 LUCID

AM
459 NIMBLE
460 NOTABLE
461 OBSERVER
462 PINNACLE
463 PIVOT
464 PLUCK
465 PRESTIGE
466 PRIME
467 REAPER
468 RIVAL
469 SAGACITY
470 SALUTE
471 SKILL
472 VALOR
473 VIGOR
474 VITAL

AM
488
489
490
491
492
493
494
495
496
497

Displacement :	750 tons (780 tons *full load*)
Dimensions :	165 × 35 × 92 feet
Machinery :	Diesel. Speed 15·5 kts.
Complement :	72 to 74

Notes.—Wooden hulls and non-magnetic equipment. Range of 2,400 miles at 12 kts. *Bold*, AM 424, *Bulwark*, AM 425, built by Norfolk Navy Shipyard, remainder by private yards. Nos. 450-454, 475-487 to foreign countries under MDAP. No U.S. names allocated. 8 to France, 6 to Netherlands, 4 to Portugal.

Auxiliary Motor Minesweepers (AMS).

100 Non-Magnetic + 20 New Construction.

AMS	AMS	AMS	AMS	AMS
69 BITTERN	72 DOTTEREL	121	123 to 154	167 to 171
70 CHUKOR	77 MACAW	122		

Displacement : 375 tons
Dimensions : 138 (*pp*), 144 (*o.a.*) × 26½ × 8½ feet
Machinery : Diesel. Speed: 14 kts.
Cost : $165,000 each

Notes.—Auxiliary motor minesweepers of wooden construction. AMS 121 and AMS 122 to be built by Mare Island Naval Shipyard *Bittern* launched Jan. 1952. *Dotterel* launched 17 April 1952, AM 67, 14 June, 1952. New type of vessel constructed throughout of materials with the lowest possible magnetic attraction to attain the greatest possible safety factor when sweeping for magnetic mines. Only named vessels and AMS 121, 122, 167, 168, will be commissioned into U.S. Navy. Remainder 61-154, 170, 171 (not the new ones) will go to foreign countries under MDAP.

18 to Italy: AMS 72-76, 79-82, 88-90, 133-138. 16 to Belgium: AMS 63-65, 77, 78, 101-104, 148-154. 4 to Denmark: AMS 127-130. 36 to France: AMS 66-77, 83-87, 93-99, 113-120, 123-126, 139-144. 14 to Netherlands: AMS 100, 105-112, 167-171. 2 to Norway: AMS 131, 132. 8 to Portugal.

AMS 155 to 166 were reserved for German-built vessels but order and numbers were cancelled.

55 "Albatross" Class.

CURLEW. 1952, *U.S. Navy, Official.*

AMS	AMS	AMS
1 ALBATROSS (ex-*YMS* 80)	12 GOLDFINCH (ex-*YMS* 306)	28 OSPREY (ex-*YMS* 422)
41 BARBET (ex-*YMS* 45)	13 GRACKLE (ex-*YMS* 312)	29 OSTRICH (ex-*YMS* 430)
2 BOBOLINK (ex-*YMS* 164)	14 GROSSBEAK (ex-*YMS* 317)	32 PELICAN (ex-*YMS* 441)
42 BRAMBLING (ex-*YMS* 109)	15 GROUSE (ex-*YMS* 321)	33 PLOVER (ex-*YMS* 442)
43 BRANT (ex-*YMS* 113, Feb. 13, 1942)	16 GULL (ex-*YMS* 324)	34 REDHEAD (ex-*YMS* 443)
3 BUNTING (ex-*YMS* 170)	17 HAWK (ex-*YMS* 362, May 22, 1943)	57 REDPOLE (ex-*YMS* 294)
4 CARDINAL (ex-*YMS* 179)	18 HERON (ex-*YMS* 369)	51 REEDBIRD (ex-*YMS* 291)
40 CHATTERER (ex-*YMS* 415)	19 HORNBILL (ex-*YMS* 371)	52 RHEA (ex-*YMS* 299)
5 CONDOR (ex-*YMS* 192)	20 HUMMER (ex-*YMS* 372)	53 ROBIN (ex-*YMS* 311)
44 COURLAN (ex-*YMS* 114)	21 JACKDAW (ex-*YMS* 373)	54 RUFF (ex-*YMS* 327, Dec. 5, 1942)
6 COURSER (ex-*YMS* 201)	22 KITE (ex-*YMS* 374)	35 SANDERLING (ex-*YMS* 446)
45 CROSSBILL (ex-*YMS* 120, Apr. 4, 1942)	48 LAPWING (ex-*YMS* 268)	55 SEAGULL (ex-*YMS* 402)
7 CROW (ex-*YMS* 215)	23 LARK (ex-*YMS* 376)	58 SISKIN (ex-*YMS* 425)
8 CURLEW (ex-*YMS* 218)	24 LINNET (ex-*YMS* 395)	36 SWALLOW (ex-*YMS* 461)
46 EGRET (ex-*YMS* 136)	49 LORIKEET (exYMS 271)	37 SWAN (ex-*YMS* 470)
10 FIRECREST (ex-*YMS* 231)	23 MERGANSER (ex-*YMS* 417)	56 TURKEY (ex-*YMS* 444)
11 FLAMINGO (ex-*YMS* 238)	27 MOCKINGBIRD (ex-*YMS* 419)	38 VERDIN (ex-*YMS* 471)
9 FLICKER (ex-*YMS* 219)	50 NIGHTINGALE (ex-*YMS* 290, Feb. 27, 1942)	39 WAXBILL (ex-*YMS* 479)
47 FULMAR (ex-*YMS* 193, Jan. 2, 1943)		

Displacement : 270 tons (350 tons *full load*)
Dimensions : 136 × 24½ × 8 (*max.*) feet
Guns : 1—3 inch, 2—20 mm. AA., 2 D.C.T.
Machinery : 2 G.M. : 1,000 = 15 kts.
Fuel : 16 tons
Complement : 50

General Notes.—Wood. Various units of this type will be found in other navies. *Magpie* (AMS 25) and *Partridge* (AMS 31) of this class struck floating mines and sank off the Korean east coast on Oct. 1, 1950, and Feb. 2, 1951, respectively.
Appearance Notes—Of similar design but AMS 1, 41-45 two funnels; AMS 2-29, 31-34, 40, 46-58 one funnel (see photo); AMS 35-39 no funnel.

Coastal Minesweepers (AMCU).

32 Underwater Locator Type.

AMCU 14 MINAH (ex-AMC 204, ex-*PCS* 1465)

Builders : Astoria Marine Construction Co.
Launched : 27 Dec., 1943
Displacement : 267 tons
Dimensions : 130 (*w.l.*) 136 (*o.a.*) × 23½ × 8½ (*max.*) feet
Guns : 1—3 inch d.p., 1—40 mm. AA.
Machinery : G.M. Diesel. 2 shafts. B.H.P. : 1,000 = 14 kts.
Complement : 47

Notes.—Formerly a patro lvesse l(submarine chaser) of the PCS type. Similar to AMS 35 type in appearance. Reclassified *AMCU 14* in 1952.

AMCU 12 HARKNESS (ex-*AGSC* 12, ex-*YMS* 242) **AMCU 13 JAMES M. GILLIS** (ex-*AGSC* 13, ex-*YMS* 262)

Displacement : 270 tons (350 tons *full load*)
Dimensions : 136 (*o.a.*) × 24½ × 8 (*max.*) feet
Guns : 1—3 inch
Machinery : G.M. Diesels. 2 shafts. B.H.P. : 1,000 = 15 kts.
Complement : 34

Notes.—Reclassified as AMCU in 1952. Formerly classed as Coastal Surveying Vessels (AGSC). Both built in 1942-43. *Simon Newcomb* driven aground, August 1949. Scrapped Jan. 31, 1950. *John Blish* and *Littleholes* also scrapped.

AMCU 34 ORTOLAN (ex-*YMS* 319)

Displacement : 215 tons *standard*
Dimensions : 136 × 24½ × 6 feet
Machinery : Diesels. 2 shafts. B.H.P. : 1,000 = 12 kts.

Notes.—Former YMS converted into underwater locator and reclassified as AMCU in 1952.

AMCU 11 (ex-*LCI (L)* 515)

Displacement : 246 tons (393 tons *full load*)
Dimensions : 153 (*w.l.*), 157 (*o.a.*) × 23½ × 5½ × (*max.*) feet
Guns : 2—20 mm. AA.
Machinery : G.M. Diesel. 2 shafts. B.H.P. : 1,600 = 15 kts.
Complement : 41

Notes.—Built 1943-44. Formerly an infantry landing craft. AMc (U) 10 was stricken from the Navy List in 1951.

AMCU	AMCU	AMCU
15 ACCENTOR (ex-*LSIL* 652)	24 GOLDCREST (ex-*LSIL* 869)	33 ORIOLE (ex-*LSIL* 973)
16 AVOCET (ex-*LSIL* 653)	25 JACAMAR (ex-*LSIL* 870)	35 OWL (ex-*LSIL* 982)
17 BLUE JAY (ex-*LSIL* 654)	26 KESTREL (ex-*LSIL* 874)	36 PARTRIDGE (ex-*LSIL* 1001)
18 CHAFFINCH (ex-*LSIL* 694)	27 KILDEER (ex-*LSIL* 883)	37 RAIL (ex-*LSIL* 1022)
19 CHEWINK (ex-*LSIL* 701)	28 LONGSPUR (ex-*LSIL* 834)	38 SANDPIPER (ex-*LSIL* 1008)
20 CHIMANGO (ex-*LSIL* 703)	29 MAGPIE (ex-*LSIL* 944)	39 SENTINEL (ex-*LSIL* 1052)
21 COCKATOO (ex-*LSIL* 709)	30 MALLARD (ex-*LSIL* 963)	40 SHEARWATER (ex-*LSIL* 1053)
22 COTINGA (ex-*LSIL* 776)	31 MEDRICK (ex-*LSIL* 966)	41 SKIMMER (ex-*LSIL* 1093)
23 DUNLIN (ex-*LSIL* 777)	32 MINIVET (ex-*LSIL* 969)	42 SPARROW (ex-*LSIL* 1098)

Displacement : 387 tons *full load*
Dimensions : 159 × 23½ × 5½ feet
Machinery : Diesels. 2 shafts. B.H.P. : 1,320 = 14 kts.
Complement : 34

Notes.—Former LSIL (Infantry Landing Ships Large). Converted into underwater locator minesweepers and reclassified as AMCU in 1952

Minesweeping Boats (MSB).

54 Shallow Draught Type. New Construction.

MSB	MSB	MSB	MSB	MSB	MSB	MSB	MSB	MSB	MSB	MSB
1	5	10	15	20	25	30	35	40	45	50
2	6	11	16	21	26	31	36	41	46	51
3	7	12	17	22	27	32	37	42	47	52
4	8	13	18	23	28	33	38	43	48	53
	9	14	19	24	29	34	39	44	49	54

Displacement : 30 tons (*light*), 42 tons (*max.*)
Dimensions : 57½ × 15½ × 4 feet.
Machinery : Diesel engines. 2 shafts. Speed 10 kts.
Complement : 6 to 8

Notes.—New type. 48 wooden hull. 2 plastic. Highly specialised shallow draught minesweeping boats. Being built at various yards MSB 5 was the first to be launched. Will be carried in an MSB carrier, a large vessel still in the design stage, or in parent ships such as LSDs, fleet oilers and cargo ships to theatre operations.

Guided Missile Ship (AVM). and Seaplane Tenders (AV).

4 "Currituck" Class.

NORTON SOUND. 1952, *U.S. Navy, Official.*

AVM
1 NORTON SOUND (Nov. 28, 1943 (ex-*AV 11*)

AV
7 CURRITUCK (Sept. 11, 1943)
12 PINE ISLAND (Feb. 26, 1944)
13 SALISBURY SOUND (ex-*Puget Sound*, June 18, 1944)

Displacement :	9,106 tons (15,092 tons *full load*)
Dimensions :	520 (*w.l.*), 540½ (*o.a.*) × 69½ × 26 feet
Guns :	4—5 inch, 38 cal., 20—40 mm. AA.
Machinery :	Geared turbines (Parsons in *Currituck*), Allis-Chalmers in others. 2 shafts. S.H.P. : 12,000 = 19·2 kts.
Complement :	1,247 (war)

Notes.—*Currituck* built by Philadelphia Navy Yard, others by Todd Shipyards, Los Angeles. *Norton Sound* has been adapted as the Navy's seagoing rocket laboratory ship and equipped for experiments with guided missiles. Two forward 5-inch guns removed to make space for helicopter platform; and stern crane removed. Ship has carried out experiments int he Pacific, making practice firings with "loon" missiles, American versions of the wartime V-1 "buzz" bombs, and with shipboard launching of the Navys "Aerobee," a true rocket which has attained altitudes up to 78 miles and speeds estimated at about 2,000 miles an hour.

4 "Whiting" Class.

AV
17 CUMBERLAND SOUND (Feb. 23, 1944)
15 HAMLIN (Jan. 11, 1944)

AV
14 KENNETH WHITING (Dec. 15, 1943)
16 ST. GEORGE (Feb. 14, 1944)

Displacement :	8,510 tons (14,000 tons *full load*)
Dimensions :	492 (*o.a.*) × 69½ × 26 (*max.*) feet
Guns :	2—5 inch, 38 cal., 12—40 mm. AA., 16—20 mm. AA.
Machinery :	Allis-Chalmers geared turbines. 1 shaft. S.H.P. : 8,500 = 18·7 kts.
Boilers :	2 Foster-Wheeler
Complement :	662 (peace)

Notes.— All are modified Maritime Commission C3-S-A1 Todd-Pacific type conversions with single screw. Only Kenneth Whiting is in commission. *Townsend*, AV 18, cancelled.

1 "Chandeleur" Class.

AV
10 CHANDELEUR

Launched : 29 Nov., 1941

Displacement :	9,031 tons (14,200 tons *full load*)
Dimensions :	492 (*o.a.*) × 69½ × 23¾ (*max.*) feet
Guns :	1—5 inch, 38 cal., 4—3 inch, 50 cal.
Machinery :	General Electric geared turbines. 1 shaft. S.H.P. : 8,500 = 18·4 kts.
Boilers :	2 Foster Wheeler

Notes.—Maritime Commission type C3-S1-B1 with single screw. Out of commission, in reserve.

Atomic Energy Ship and Seaplane Tenders (AV)

2 "Curtiss" Class.

CURTISS. *Added* 1950, *U.S. Navy, Official.*

AV
4 CURTISS (April 20, 1940)

AV
5 ALBEMARLE (July, 13 1940)

Displacement :	8,671 tons (13,475 tons *full load*)
Dimensions :	508 (*w.l.*), 527½ (*o.a*) × 69½ × 21½ (*max.*) eet
Guns :	4—5 inch, 38 cal., 14—40 mm. AA.
Aircraft :	25
Machinery :	Parsons geared turbines. 2 shafts. S.H.P. : 12,000 = 19·7 kts.
Boilers :	4 Babcock & Wilcox Express
Complement :	1,195 (war)

Notes.—Built as large seap'ane tenders by New York S.B. Corpn., under 1937 and 1938 Programmes, respectively, with space for Flag and Fleet Air Wing staffs. *Curtiss* is no longer employed as a seaplane tender, having been modified for use by the Atomic Energy Commission. Modifications include the installation of shops and equipment for A.E.C. within former hangar area.

2 "Tangier" Class.

TANGIER. 1944, *U.S. Navy, Official.*

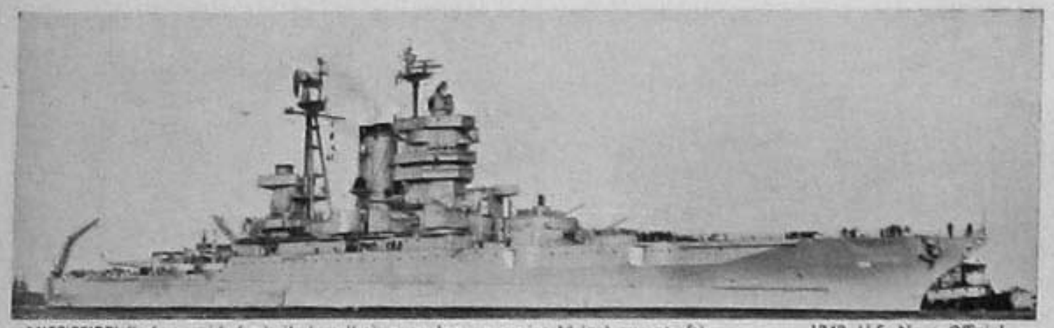
AV
9 POCOMOKE (ex-*Exchequer*, June 8, 1940)

AV
8 TANGIER (ex-*Sea Arrow*), 1939

Displacement :	8,560 tons (14,800 tons *full load*)
Dimensions :	465 (*pp*), 492 (*o.a.*) × 69½ × 24½ (*max.*) feet
Guns :	1—5 inch, 38 cal., 4—3 inch, 50 cal., 8—40 mm. AA.
Machinery :	Geared turbines (General Electric in *Pocomoke* ; De Laval in *Tangier*). 1 shaft. S.H.P. : 8,500 = 18·4 kts.
Boilers :	2 Foster-Wheeler
Oil fuel :	1,417 tons
Complement :	857

Notes.—Both are modified C 3-Cargo (S) type mercantile conversions. Out of commission, in reserve.

Experimental Gunnery (Guided Missile) Ship.



MISSISSIPPI (before guided missile installation; no longer carries 14-inch turret aft). 1948, *U.S. Navy, Official.*

EAG
127 MISSISSIPPI

Builders :	Newport News S.B. Co.
Laid down :	5 April, 1915
Launched :	25 Jan., 1917
Completed :	18 Dec., 1917

Displacement :	29,700 tons (36,000 tons *full load*)
Dimensions :	600 (*w.l.*) 626 (*o.a.*) × 106 × 29¾ (*mean*), (*max.*) feet
Guns :	Guided missile projectors, 1—6 inch d.p. 47 cal., 4—5 inch, 54 cal. (in twin mounts of new type), 4—3 inch, 50 cal. (in new type twin mounts), Rockets. Also carries standard 5 inch, 38 cal., mountings for instructional purposes.
Machinery :	Westinghouse geared turbines. 4 shafts. S.H.P. : 40,000 = 21·5 kts. (*max.* now 19 kts.)
Boilers :	6 Bureau Express
Oil fuel :	2,200 tons

Notes.—Built as a battleship (BB 41) of *New Mexico* class, but converted into an Experimental Gunnery Ship at Norfolk Navy Yard, 1947, to replace *Wyoming* (scrapped). No longer carries 14-inch turret aft. Now fitted to carry and launch rockets and missiles. Launchers for "Terrier" guided missiles located in stern.

Amphibious Force Flagships (AGC).

4 "Blue Ridge" Class.

ROCKY MOUNT. *Added 1949, Tomitch.*

AGC
1 APPALACHIAN (Jan. 29, 1943)
2 BLUE RIDGE (March 7, 1943)

AGC
5 CATOCTIN (ex-*Mary Whitridge*)
3 ROCKY MOUNT (March 7, 1943)

Displacement :	7,430 tons (*Navy light*), 12,800 tons *full load*)
Dimensions :	459½ (*o.a.*) × 63 × 24 (*max.*) feet
Machinery :	Geared turbines. S.H.P. : 6,000 = 16·4 kts.

Notes.—C2-S-B1 type like AKA 53 to AKA 100 and T-AF. Launch dates above. Out of commission, in reserve.

Amphibious Force Flagships—*continued.*

11 "Mount Olympus" Class.

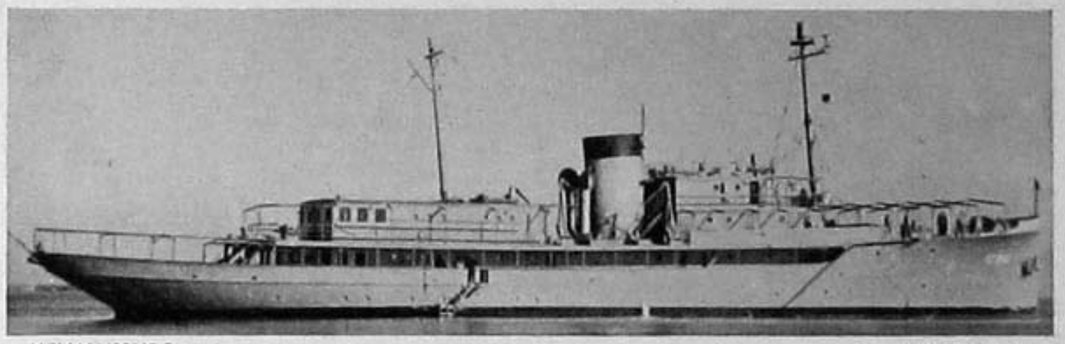
MOUNT OLYMPUS. 1952, *Wright & Logan.*

AGC
15 ADIRONDACK
10 AUBURN (ex-*Kathay*)
11 ELDORADO (ex-*Monsoon*)
12 ESTES (ex-*Morning Star*)
7 MOUNT McKINLEY (ex-*Cyclone*)

AGC
8 MOUNT OLYMPUS (ex-*Eclipse*)
13 PANAMINT (ex-*Northern Light*)
16 POCONO
17 TATONIC
14 TETON (ex-*Witch of the Wave*)
9 WASATCH (ex-*Fleetwing*)

Displacement :	5,450 tons (*Navy light*), 15,295 tons *full load*
Dimensions :	435 (*w.l.*), 459½ (*o.a.*) × 63 × 28½ (*max.*) feet
Guns :	2—5 inch, 8—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 6,000 = 16·4 kts.
Boilers :	2 Combustion Engineering type
Complement :	About 550

Notes.—C2-S-AJ1 type, but differ. Originally rated as Combined Operations Communications Headquarters Ships, these vessels are fitted as flagships for Chiefs of Combined Forces, with accommodation for Marine or Army units attached. Radar and radio equipment is exceptionally elaborate. In 1951 the *Mount Olympus* temporarily relieved the heavy cruiser *Columbus* as flagship of the Commander-in-Chief, American Forces, Eastern Atlantic and Mediterranean. After guns removed in *Eldorado* and helicopter landing platform installed. Twin 40-mm. installed on extended stern of *Eldorado* instead of 5-inch, 38 cal., as formerly.



WILLIAMSBURG. 1952, *Ted Stone*

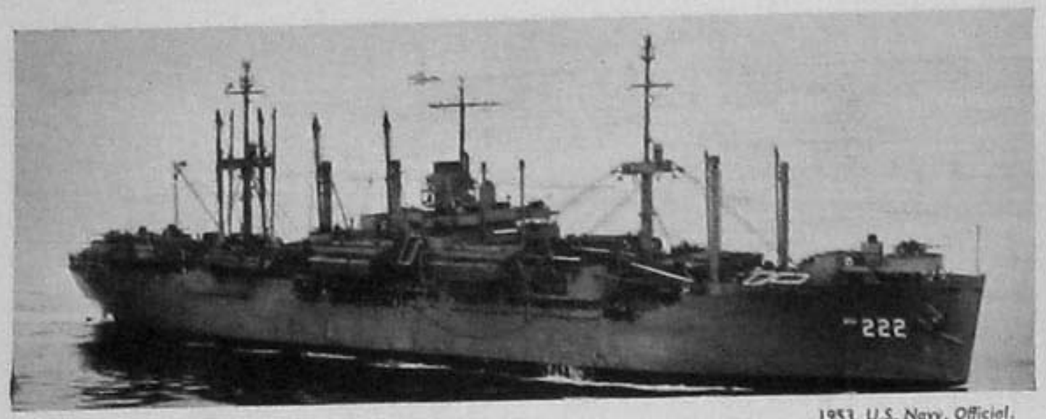
AGC
369 WILLIAMSBURG (ex-*Aros*)

Launched	1931
Displacement :	1,730 tons
Dimensions :	224 (*w.l.*), 243½ (*o.a.*) × 36 × 16 (*mean*) feet
Machinery :	Winton Diesel. 2 shafts. B.H.P. : 2,200 = 16 kts.

Notes.—Ex-*PG* 56. Yacht acquired in 1941. Refitted and redesignated AGC in 1946. Used as Presidential Yacht until end of 1952.

Attack Transports (APA).

57 "Arenac" Class.



PICKAWAY.

1953, U.S. Navy, Official.

APA	APA	APA	APA
128 ARENAC (Sept. 14, 1944)	176 KERSHAW	212 MONTROSE	227 RENVILLE
132 BARNWELL (Sept. 30, 1944)	152 LATIMER	213 MOUNTRAIL	228 ROCKBRIDGE
237 BEXAR	180 LAVACA	214 NATRONA	229 ROCKINGHAM
136 BOTETOURT (Oct. 19, 1944)	195 LENAWEE	215 NAVARRO	230 ROCKWALL
235 BOTTINEAU	196 LOGAN	216 NESHOBA	192 RUTLAND
236 BRONX	197 LUBBOCK	217 NEW KENT	193 SANBORN
140 BROOKINGS	198 McCRACKEN	218 NOBLE	194 SANDOVAL
144 CLINTON	199 MAGOFFIN	219 OKALOOSA	232 SAN SABA
148 CROCKETT	156 MELLETTE	220 OKANOGAN	204 SARASOTA
238 DANE	201 MENARD	188 OLMSTED	205 SHERBURNE
160 DEUEL	202 MENIFEE	221 ONEIDA	206 SIBLEY
164 EDGECOMBE	203 MERIWETHER	222 PICKAWAY	208 TALLADEGA
168 GAGE	207 MIFFLIN	224 RANDALL	209 TAZEWELL
239 GLYNN	211 MISSOULA	226 RAWLINS	210 TELFAIR
172 GRIMES			

Displacement :	6,720 tons (*light*), 12,450 tons *full load*
Dimensions :	436½ (*w.l.*), 455 (*o.a.*) × 62 × 24 (*max.*) feet
Guns :	1—5 inch, 12—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 8,500 = 17·7 kts.
Boilers :	2 Babcock & Wilcox
Complement :	536 (war)

Notes.—VC2-S-AP5 "Victory" type ships. All county names. Can carry 1,560 troops and 3,000 tons of war stores.

4 "Delta" Type.

APA	APA
32 CALVERT (ex-*Deloreans*, May 29, 1943)	21 CRESCENT CITY (ex-*Deloreans*, 1940
28 CHARLES CARROLL (ex-*Deluruguay*), 1941	31 MONROVIA (ex-*Delargentino*, 1942)

Displacement :	8,429 tons (*light*), 14,247 tons *full load*
Dimensions :	468 (*pp.*), 491 (*o.a.*) × 65½ × 25½ (*max.*) feet
Guns :	1—5 inch, 3—3 inch, 4—40 mm. AA.
Machinery:	Geared turbines. S.H.P. : 7,800 = 16 kts.
Boilers :	2 Babcock & Wilcox

Notes.—C3-Delta type, formerly with "Del" names. Can carry 1,200 troops.

4 "President" Type.

APA	APA
19 PRESIDENT ADAMS (1941)	18 PRESIDENT JACKSON (1940)
20 PRESIDENT HAYES (1940)	30 THOMAS JEFFERSON (ex-*President Garfield*), 1941)

Displacement :	10,210 tons (*Navy light*), 16,000 tons *full load*)
Dimensions :	491½ (*o.a.*) × 69½ × 26½ (*max.*) feet
Guns :	4—3 inch, 50 cal., 6—40 mm.
Machinery :	Geared turbines. S.H.P. : 8,500 = 18·4 kts.
Complement: 152	

Notes.—C3-AP & C type. Begun in 1940 and first commissioned in the Navy in 1941. Can carry 1,500 troops. *President Jackson* and *Thomas Jefferson* are assigned to Military Sea Transportation Service. Other two out of commission, in reserve.

Attack Transports—*continued.*

6 "Bayfield" Type.

CHILTON.

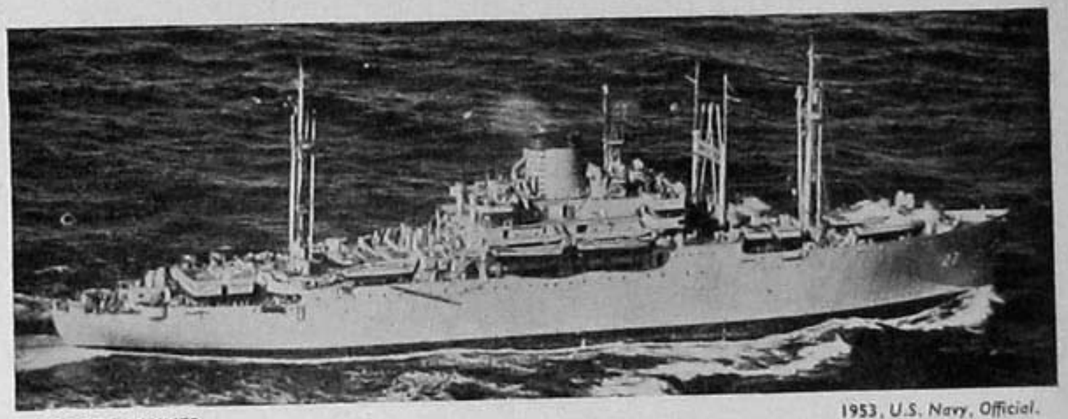
1952, Harvey Gilston, Esq.

APA	APA
33 BAYFIELD (ex-*Sea Bass*)	38 CHILTON (ex-*Sea Needle*, Dec. 24, 1942)
36 CAMBRIA (ex-*Sea Swallow*)	44 FREMONT (ex-*Sea Corsair*, March 31, 1943)
37 CAVALIER	45 HENRICO (ex-*Sea Darter*)

Displacement:	8,100 tons (*light*), 16,100 tons *full load*)
Dimensions :	465 (*w.l.*), 492 (*o.a.*) × 69½ × 26½ (*max.*) feet
Guns :	2—5 inch, 4—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 8,500 = 18·4 kts.
Boilers :	2 Combustion Engineering type

Notes.—C3-S-A2 type, formerly with "Sea" names; but subsequently given county names by the United States Navy.

3 "American" Type.



GEORGE CLYMER.

1953, U.S. Navy, Official.

APA	APA
25 ARTHUR MIDDLETON (ex-*African Comet*, ex-*American Banker*, 28 June 1941)	
27 GEORGE CLYMER (ex-*African Planet*, ex-*American Farmer*, 1941)	
26 SAMUEL CHASE (ex-*African Meteor*, ex-*American Shipper*, 1941)	

Displacement :	10,812 tons (*Navy light*), 18,000 tons *full load*
Dimensions :	465 (*w.l.*) 489 (*o.a.*) × 69½ × 27½ feet
Guns :	4—3 inch, 6—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 8,500 = 18·4 kts.
Complement :	512

Notes.—C3-P type. Can carry 27 landing craft and 1,400 troops. Ships vary in detail. Some are fitted as flagships.

Attack Cargo Ships(AKA).

25 "Andromeda" Class.

ARNEB 1951, Abrahams.

AKA
53 ACHERNAR (Dec. 22, 1943)
54 ALGOL (*ex-James Baines*)
55 ALSHAIN (Jan. 26 1944)
15 ANDROMEDA (Dec. 22, 1942)
56 ARNEB (*ex-Mischief*)
57 CAPRICORNUS (*ex-Spitfire*)
58 CHARA (March 15, 1944)
59 DIPHDA (May 11, 1944)

AKA
60 LEO (June 29, 1944)
95 MARQUETTE (April 29, 1945
96 MATHEWS
97 MERRICK
98 MONTAGUE
61 MULIPHEN (Aug. 26, 1944)
100 OGLETHORPE (April 15, 1945
99 ROLETTE

AKA
19 THUBAN (April 26, 1943)
88 UVALDE (May 20, 1944)
20 VIRGO (June 4, 1943)
89 WARRICK
90 WHITESIDE
91 WHITLEY
94 WINSTON (Nov. 30, 1944)
92 WYANDOT
93 YANCEY

Displacement :	7,430 tons (*light*), 12,800 tons *full load*)
Dimensions :	435 (*w.l.*), 459½ (*o.a.*) × 63 × 24 (*max.*) feet
Guns :	1—5 inch, 8—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 6,000 = 16·4 kts.
Boilers :	2 Foster-Wheeler
Complement	247

Notes.—C2-S-B1 type. Launch dates above. Can carry over 5,200 tons of cargo and 2,200 tons of tanks. *Arneb* has been refitted for Arctic Service. Completed March 15, 1949. Other vessels are also to be "winterised." *Mothews, Merrick* and *Rolette* reacquired from the Maritime Administration Reserve Fleet by the Navy, 1951, and reactivated. *Leo* assigned to Military Sea Transportation Service.

6 "Rankin" Type.

AKA
103 RANKIN
104 SEMINOLE
105 SKAGIT

AKA
106 UNION
107 VERMILION
108 WASHBURN

Displacement :	6,645 tons (*Navy Light*), 14,160 tons (*full load*)
Dimensions :	459½ (*o.a.*) × 63 × 26½ (*max.*) feet
Guns :	1—5 inch, 38 cal., 8—40 mm. AA., 10—20 mm. AA.
Machinery :	Geared turbines. 1 shaft. S.H.P. : 6,000 = 16·5 kts.
Complement :	247

Notes.—C2-S-AJ3 type. Laid down 1944 and first commissioned in the Navy 1945. Combat load 4,500 tons. *Rankin* was reactivated for the Navy late 1951 from the Maritime Administration Reserve Fleet.

Attack Cargo Ships—*continued.*

3 "Libra" Class.

TITANIA. 1953, *U.S. Navy, Official.*

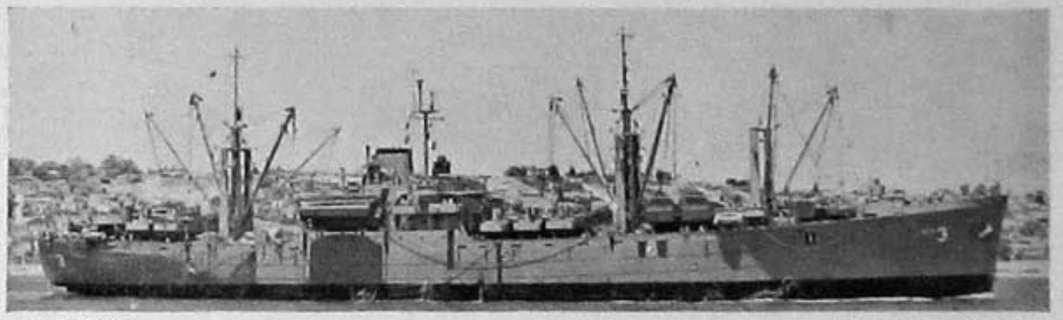
AKA
12 LIBRA (ex-*Jean Lykes*, 1941)
14 OBERON (ex-*Delalba*, March 18, 1942)

AKA
13 TITIANA (ex-*Harry Culbreath*, Feb. 28, 1942)

Displacement	6,345 tons (*light*), 14,440 tons *full load*
Dimensions :	435 (*w.l.*), 459½ (*o.a.*) × 63 × 26½ (*max.*) feet
Guns :	1—5 inch, 8—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 6,000 = 16·5 kts.
Boilers :	2 Foster-Wheeler
Complement :	250

Notes.—C2-F Cargo (S) type. Launch dates above. Can carry 5,400 tons of cargo and 2,000 tons of war equipment. *Oberon* assigned to Millitary Sea Transportation Service.

2 "Bellatrix" Type.



BELLATRIX. 1953, *U.S. Navy, Official.*

AKA
3 BELLATRIX

AKA
4 ELECTRA

Displacement :	6,194 tons (*light*), 10,432 tons (*full load*). Maritime Commission *deadweight*, 8,656 tons
Dimensions :	459 (*o.a.*) × 63 × 25½ (*max.*) feet
Machinery :	Diesel. 1 shaft. B.H.P. : 6,000 = 15·5 kts.

Notes.—C2-T- type. Laid down and first commissioned in the Navy in 1940. Reactivated for the Navy 1951 from the Maritime Administration Reserve Fleet.

Vehicle Landing Ships (LSV).

2 Converted Large Minelayer Type.

OZARK. 1944, *U.S. Navy, Official.*

LSV
1 CATSKILL (ex-*CM* 6, May 19, 1942)
LSV
2 OZARK (ex-*CM* 7, June 15, 1942)

Displacement :	5,875 tons (9,040 tons *full load*)
Dimensions :	440 (*w.l.*), 455½ (*o.a.*) × 60½ × 20 feet
Guns :	2—5 inch, 38 cal., 8—40 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 11,000 = 20·3 kts.
Boilers :	4 Combustions Engineering type
Complement :	400

Notes.—Both built by Willamette Iron & Steel Corpn., Portland, Oregon, under 1940 Programme. Launch dates above. Designed as large Minelayers, but were subsequently converted into Landing Ships (Vehicle). Out of commision, in reserve.

3 Converted Netlayer Type.

OSAGE. 1944, *U.S. Navy, Official.*

LSV
5 MONITOR (ex-*AN* 1, Jan. 29, 1943)
LSV
3 OSAGE (ex-*AN* 3, June 30, 1943)
LSV
4 SAUGUS (ex-*AN* 4, Sept. 4, 1943)

Displacement :	5,625 tons (9,040 tons *full load*)
Dimensions :	440 (*w.l.*), 451½ (*o.a.*) × 60½ × 20 feet
Guns :	2—5 inch, 38 cal., 8—40 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 11, 000 = 20·3 kts.
Boilers :	4 Combustion Engineering type
Complement :	564

Notes.—All built by Ingall's S.B. Corpn., Pascagoula, Miss. Launch dates above. Designed as Netlayers, but converted into Landing ships (Vehicle). Carry 40 LVTs and 800 troops. Out of Commission in reserve

General Note.—Attack Cargo and Attack Transports, recorded on preceding pages, are in fact other species of Landing Ships.

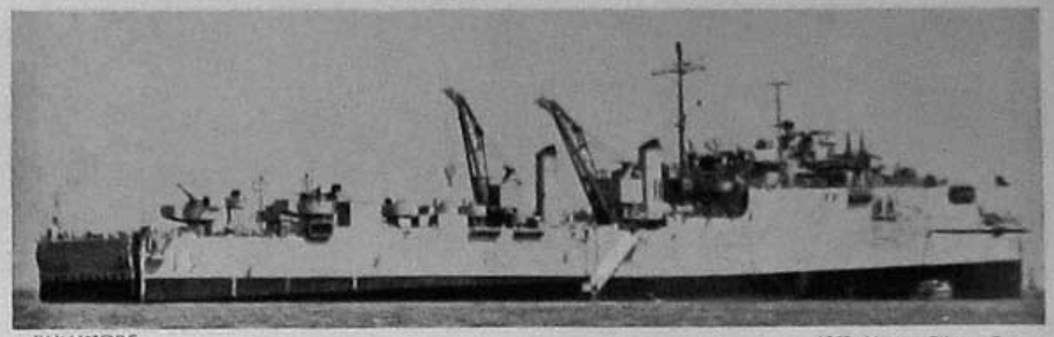
Dock Landing Ships (LSD).

4 New Construction.

LSD 28 **LSD 29** **LSD 30** **LSD 31**

Displacement :	6,500 tons *standard*
Dimensions :	510 (*o.a.*) × 84 × — feet

Notes.—Same general design as earlier types, but larger and faster. LSD 28 order 8 Nov. 1951, cancelled, but reordered with LSD 29, 30, 31 from Ingalls Shipbuilding Corporation, Pascagoula, Mississippi.

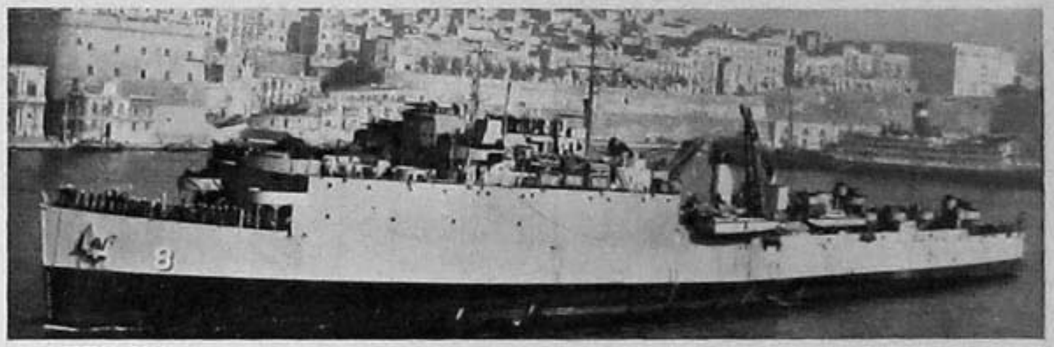


RUSHMORE. 1952, *Harvey Gilston, Esq.*

LSD
16 CABILDO (Dec. 28, 1944)
13 CASA GRANDE (ex-*Spear*, ex-*Portway*, April 11, 1944)
17 CATAMOUNT (Jan. 27, 1945)
18 COLONIAL (Feb. 28, 1945)
19 COMSTOCK (April 28, 1945)
20 DONNER (April 6, 1945)
21 FORT MANDAN (1945)
LSD
22 FORT MARION (May 22, 1945)
14 RUSHMORE (ex-*Sword*, ex-*Swashway*, May 10, 1944)
25 SAN MARCOS (Jan. 10, 1945)
15 SHADWELL (ex-*Tomahawk*, ex-*Waterway*, May 24, 1944
26 TORTUGA (Jan. 21, 1945)
27 WHETSTONE (1945)

Displacement:	4,032 tons (9,375 tons *full oad*)
Dimensions :	457¾ (*o.a.*) × 72½ × 18 (*max.*) feet
Guns :	1—5 inch, 38 cal., 12—40 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 7,000 = 15·4 kts.
Complement :	240

Notes.—*Catamount*, *Colonial*, *Comstock* and others built by Newport News, some built by Navy Yards. Of same type as "Ashland" class, below, but differently armed and propelled. Can carry 3 LSUs or 18 LCMs.



WHITE MARSH. 1952, *A. & J. Pavia.*

LSD
1 ASHLAND (Dec. 21, 1942)
2 BELLE GROVE (Feb. 17, 1942)
3 CARTER HALL (March 4, 1943)
4 EPPING FOREST (April 2, 1943)
LSD
5 GUNSTON HALL (May 1, 1943)
6 LINDENWALD (June 11, 1943)
7 OAK HILL (June 25, 1943)
8 WHITE MARSH (July 19, 1943)

Displacement :	4,500 tons
Dimensions :	454 (*w.l.*), 457½ (*o.a.*) × 72 × 18 feet
Guns :	1—5 inch, 4—40 mm. AA., 16,—20 mm. AA.
Machinery :	Skinner Unaflow reciprocating. 2 shafts. I.H.P. : 7,400 = 17 kts.
Boilers :	2, of 2-drum type

Notes.—All built by Moore Dry Dock Co. These Landing Ships (Dock) are designed to serve as parent ships to landing craft and to coastal craft. *Gunston Hall* and *Lindenwald* have been adapted for Arctic service. Conversion completed March 15 and 1, 1949, respectively. All can carry 18 flat nosed LCMs (Landing Craft Medium) or 3 LCUs in their well-decks running three-quarters of their length. In each LCM is a smaller LCVP (Landing Craft, Vehicle-Personnel).

Tank Landing Ships (LST).
15 New Construction.

LST 1156-1170 SERIES

Displacement :	2,439 tons (*light*), 5,786 tons (*max.*)
Dimensions :	385 (*o.a.*) × 55 × 12⅓ (*mean draught under max. load*)
Guns :	3-inch, 50 cal.
Machinery :	Four Diesel engines, 2 shafts, Controlled pitch propellers, B.H.P. : 6,000

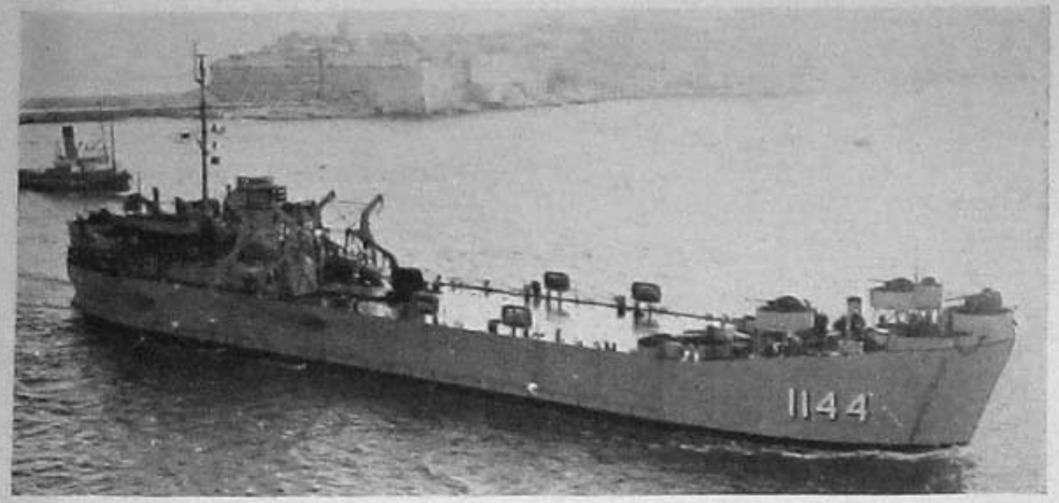
Note.—Design is modification of that of two experimental ships constructed during Second World War. LST 1156 launched 9 Aug. 1952, 1158 11 April 1953, 1163 17 Mar. 1953, Five each built by Bath Iron Works, Christy Corporation, and Ingalls' Shipbuilding Corpn.

LST 1153 **LST 1154**

Displacement :	2,324 tons (6,000 tons *full load*)
Dimensions :	368 (*w.l.*), 382 (*o.a.*) × 54 × 14½ feet
Guns :	2—5 inch, 38 cal., 4—40 mm. AA.
Machinery :	Geared turbines, 2 shafts, S.H.P. : 6,000 = 14 kts.
Complement :	82

Notes.—Built by Boston Navy Yard. 1153 completed 3 Sept. 1947 ; 1154 completed May 24, 1949. This type can carry 4 small landing craft, and has increased troop accommodation, greater tank, vehicle and cargo capacity, and improved arrangements for discharge, compared with " LST 1-1152 " class.

150 "LST 1—1152" Classes.



LST 1144. 1951 *Photo.*

LST 511-1152 SERIES

Displacement :	1,653 tons *standard* (4,080 tons *full load*)
Dimensions :	316 (*w.l.*), 328 (*o.a.*) × 50 × 14 (*max.*) feet
Guns :	7—40 mm. AA., 2—20 mm. AA.
Machinery :	Diesel, 2 shafts, B.H.P. : 1,700 = 11 kts.
Cargo capacity :	2,100 tons
Complement :	211

Notes.—LST 526 was the only U.S. ship of her type to serve as an aircraft carrier in the Second World War. Fitted with a plywood flight deck she carried 10 Piper Cubs and their Army Pilots, and operated off the west coast of France in 1945. (Some British LSTs flew off artillery observation aircraft from their upper decks). One Landing Ship Tank (casualty evacuation) remained in the list, the LSTH 731, now reclassified as LST 731 and in the Atlantic Reserve Fleet.

LST 1-510 SERIES

Displacement :	1,625 tons (4,050 tons *full load*)
Dimensions :	328 (*o.a.*) × 50 × 14½ (*max.*) feet
Machinery :	Diesel, 2 shafts, B.H.P. : 1,700 = 10·8 kts.

Notes.—Are ocean tank carriers with bow doors. In the Second World War LST 32 was fitted with railway lines on the tank deck to enable her to transport trucks from Sicily to the mainland. Seven LSTs were modified as LSTH for casualty evacuation and treatment of wounded, all since stricken from the list of naval vessels. About 90 LST are active (all classes).
38 LSTs are assigned to MSTS and designated USNS.

Inshore Fire Support Ship.

IFS

Displacement :	1,200 tons
Dimensions :	245 × 38½ × — feet
Machinery :	Diesels: 2 shafts, geared drive, twin screws with variable pitch.

Notes.—Designed to support troops in amphibious landings. To be built by Puget Sound Brigde & Dredging Co. Main armament to be rapid fire rocket launchers. Keel laid 19 Nov. 1952.

Medium Landing Ships (LSM).

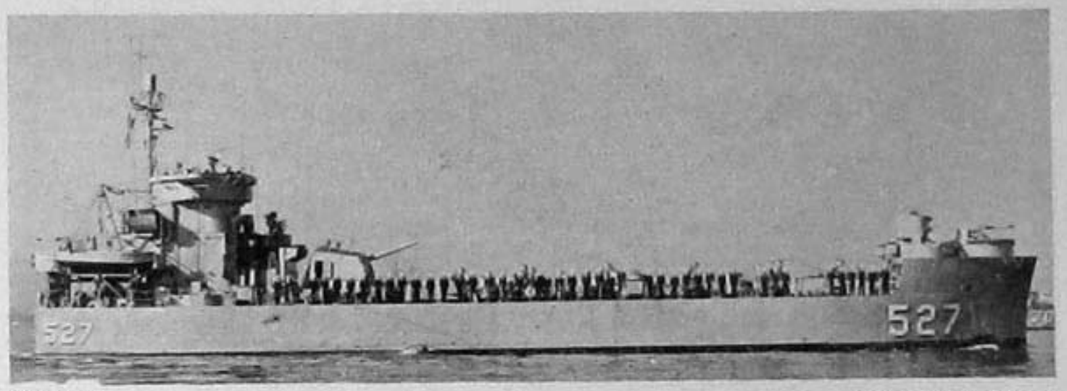
LSM 458. 1952, *U.S. Navy, Official.*

LSM 1-558 SERIES

Displacement :	743 tons *beaching*, (1,095 tons *full load*)
Dimensions :	196½ (*w.l.*), 203½ (*o.a.*) × 34½ × 8½ feet
Guns :	2—40 mm. AA.
Tanks :	5 Medium
Machinery :	Diesel, 2 shafts, B.H.P. : 2,800 = 12 kts.
Complement :	59

Notes.—157 in service or reserve. Some have been fitted with Kirsten cycloidal propellors, enabling ships to turn 360 degrees and remain in same position. LSM 445 is employed as "Electronic Landing Ship" with lattice tripods fore and aft in addition to pole mast amidships LSM 446 similar, LSM 335 and LSM 476 assigned to Military Sea Transportation Service 1 July, 1951 ; classed as USNS (Navy-owned, non commissioned, in service).

Medium (Rocket) Landing Ships (LSMR).



LSMR 527. 1953, *U.S. Navy, Official.*

LSMR 401-412, 501-536

Displacement :	520 tons (961 to 1,084 tons *full load*)
Dimensions :	203½ (*o.a.*) × 34½ × 8½ (*max.*) feet
Guns :	1—5 inch, 4—4·2 inch mortars, 2—40 mm. AA., 10 rocket projectors
Machinery :	Diesel, 2 shafts, B.H.P. : 2,800 = 13 kts.
Complement :	120

Notes.—48 in service or reserve. Modified LSMs. The ten automatic rocket launchers are continuously fed, each firing thirty spin-stabilised 5-inch rockets per minute, a barrage of 300 per clip. In war time conning tower was sited as in top photo but conning tower is now situated on stern amidships and the 5-inch gun directly before it. Some retain the high LSM bow while others have the lower-ship bow.

Support Landing Ships (LSSL).

LSSL 1-130 SERIES

Displacement :	227 tons (383 tons *full load*)
Dimensions :	158½ (*o.a.*) × 23¼ × 5½ (*max.*) feet
Guns :	1—3 inch, 50 cal., 4—40 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,600 = 14·5 kts.
Complement :	73

Notes.—Formerly LCS(L) Mark III. 10 in the Navy List, active and reserve. LSSL 35 and 65 in commission. Six transferred to Italian Navy in 1951, and 54 to Japanese Coastal Security Force in 1953.

Infantry Landing Ships (LSIL).

LSIL 1-1098 SERIES

Displacement :	230 tons (387 tons *full load*)
Dimensions :	159 × 23½ × 5½ feet
Guns :	4 or 5—20 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 1,320 = 14 kts.
Complement :	29 to 78, according to employment

Notes.—Later LSILs, 693, etc., have small bow doors as in LSTs. LSIM 638, redesignated LSIL. 22 LSFF (Flotilla Flagships) survive. 27 ships of the LSIL type were converted into coastal minesweepers (underwater locator) in 1952, leaving 35 LSILs remaining in the list of naval vessels. LSIL 978 was stricken 1952.

Utility Landing Craft (LCU).

38 New Construction.

LCU 1466-1503 SERIES

Displacement :	180 tons (*light*)
Dimensions :	115½ × 34 × — feet.

Notes.—Announced contracts awarded 2 Nov. 1951. Basically the same as Second World War LCTs. Slightly longer and wider. Chief mission will still be that of putting tanks, and their crews on to beaches. Designation was changed from LCT to LSU because of their many additional uses, and subsequently (1952) to LCU.

LCU 501-1465 SERIES (*ex-LSU, ex-LCT* (6)

Displacement :	143 tons (309 tons *full load*)
Dimensions :	120½ (*o.a.*) × 32½ × 4 (*max.*) feet
Machinery :	Diesel. 3 shafts. B.H.P. : 675 = 10 kts.

Notes.—113 of these LCUs in service or reserve. Conversion of Nos. 1273, 1330, 1363, 1452, 1463, 1374 for Arctic service completed March 1949. Formerly rated as Landing Ships Tank (Small). Re-designated LSUs late 1949. Reclassified LCUs 15 April 1952. Can carry 4 tanks or 150 tons of cargo. LCU 1362 assigned to MSTS.

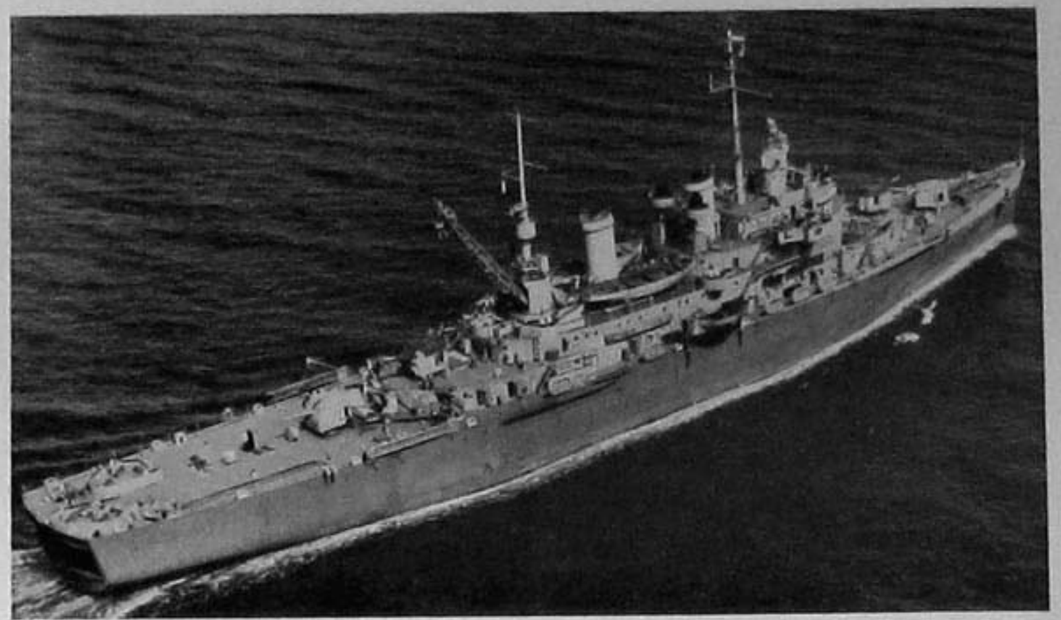
Auxiliary Minelayers.

ACM 15. 1948, *Mr. W. H. Davis.*

ACM
11 (*ex-MP 12, Brig. Gen. Royal T. Frank*)
12 (*ex-MP 10, Major Gen. Erasmus Weaver*)
13 (*ex-MP 14, Col. Horace F. Spurgeon*)

ACM
14 (*ex-Major Samuel Ringold*)
15 (*ex-Major General Wallace F. Randolph*)
16 (*ex-MP 13, Colonel Alfred A. Mayback*)

Large (Cruiser) Minelayer (CM).



TERROR. 1950, *U.S. Navy, Official*

CM
5 TERROR

Builders :	Philadephia Navy Yard
Launched	6 June, 1941
Completed :	1942
Displacement :	5,875 tons (8,650 tons *full load*)
Dimensions :	453¾ (*o.a.*) × 60½ × 20 (*max.*) feet
Guns :	4—5 inch, 38 cal., 24—40 mm. (quadruple mounts)
Mines :	800
Machinery :	Geared turbines. 2 shafts. S.H.P. : 11,000 = 20 kts.
Complement :	400 (war)

Notes.—Built under 1938 Programme. Mine ports in stern. Cruiser type with high freeboard. Out of commission, in reserve.

Motor Mine Planters.

YMP
1 (ex-*JMP 70*)

YMP
2 (ex-Sgt. *Truman O. Olson*)

Notes.—These two vessels are ex-Army Junior Mine Planters. Now in Navy List and rated as service craft. Small Motor Mine Planters *L 1, L 2, L 3, L 4*, are attached to ACM 12 and C-6969, C-6971, C-6972 (ex-*L 74*) to ACM 13. On 23 Nov. 1949, functions of controlled minelaying were transferred from the Army to the Navy, senior planters (*MP*) and junior planters (*JMP*) being reclassified.

Minesweeper Depot Ships.

2 New Construction.

2 *Philadelphia Navy Yard*

XMAP
1

XMAP
2

Displacement :	3,000 tons (*light*)

Notes.—Officially described as Sweeper Devices. Reported may be used as MSB carriers and parent ships.

Transports

BARRETT. 1953, *U.S. Navy, Official.*

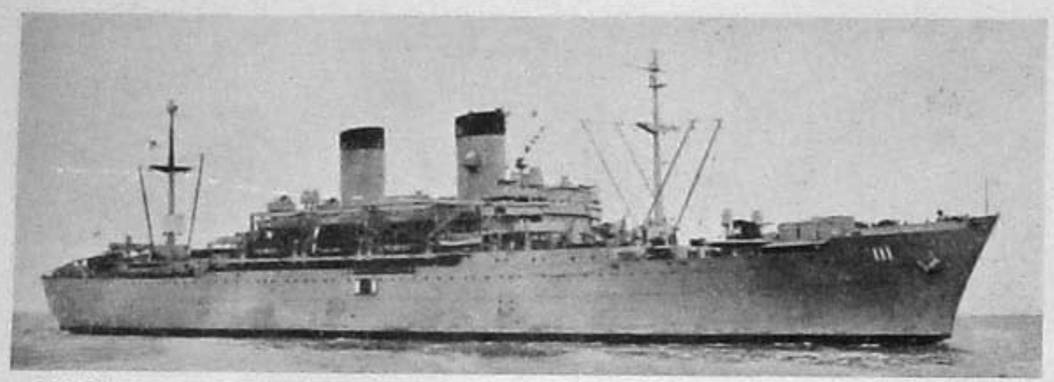
T-AP
196 BARRETT (ex-*President Jackson*)
T-AP
197 GEIGER (ex-*President Adams*)
T-AP
198 UPSHUR (ex-*President Hayes*)

Displacement:	17,600 tons *standard*, 19,600 tons (*full load*)
Measurement:	12,660 tons (*gross*), 10,600 tons *deadweight*
Dimensions:	500 (*pp.*), 533 (*o.a.*) × 73 × 27 feet
Machinery:	Geared turbines. 1 shaft. S.H.P.: 13,750 = 19 kts. (cruising, see notes)

General Notes.—Maritime Administration type P2-SI-DNI. Originally laid down as passenger ships for the American President Lines but taken over by the Navy to be completed as troop transports, and have all been assigned to Military Sea Transportation Service as U.S. Naval Ships (non-commissioned naval vessels). Troop carrying capacity of 1,500 plus 396 cabin berths for officers and dependents. Troop lift can be increased by at least 1,000 men if necessary by converting recreation areas into berthing spaces.

Engineering Notes.—On sea trials *Barrett* attained speed of 21·5 knots at full power, 1·5 knots more than expected by engineers on the basis of shaft horse power developed.

Name.	*Builders*	*Laid down*	*Launched*	*Completed*
Barrett	New York Shipbuilding Corp., Camden, N.J.	1 June, 1949	27 June, 1950	15 Dec., 1951
Geiger		1 Aug., 1949	9 Oct., 1950	End 1952
Upshur		30 Sept., 1949	19 Jan., 1951	End 1952



GENERAL A. E. ANDERSON. *Photo added 1951.*

T-AP
111 GEN. A. E. ANDERSON (May 2, 1943)
115 GEN. G. M. RANDALL (Jan. 30, 1944).
113 GEN. H. W. BUTNER (Sept. 10, 1943)
176 GEN. J. C. BRECKINRIDGE (March 18, 1945)
110 GEN. JOHN POPE (USNS)

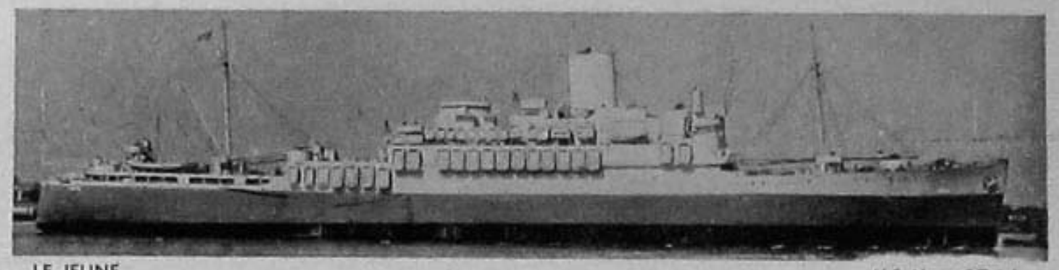
T-AP
116 GEN. M. C. MEIGS (USNS)
112 GEN. W. A. MANN (July 18, 1943)
114 GEN. WILLIAM MITCHELL (Oct. 31, 1943)
119 GEN. WILLIAM WEIGEL (USNS)
117 GEN. W. H. GORDON (USNS)

Displacement:	11,828 tons (20,175 tons *full load*)
Dimensions:	573 (*w.l.*), 622½ (*o.a.*) × 75½ × 25½ (*max.* feet)
Guns:	4—5 inch, 8—40 mm. AA., 20 mm.
Machinery:	De Laval geared turbines. 2 shafts. S.H.P.: 17,000 = 20.6 kts.
Boilers:	4 Foster-Wheeler, 465 lb. working pressure
Troops:	5,500

Notes.—All built by Federal S.B. & D.D. Co. at Kearny. Manned by the U.S. Navy. AP 110, 116, 119 assigned to Military Sea Transportation Service 1 July, 1951, others to MSTS in 1950. AP 117 reacquired by Navy from Maritime Administration 1951. AP 110, 116, 117 and 119 designated USNS and not armed, remainder USS.

Notes.—On Oct. 1, 1949 the U.S. Navy's Military Sea Transportation Service took over Naval and Army Transport Services.

General Notes.—Non-commissioned ships of the Military Sea Transportation Service (U.S. Naval Ships), Transports, Cargo Ships and Tankers, are identified by a *blue and gold band* on their funnels, with names painted on each bow and stern prefixed with the letters U.S.N.S. In other respects they are painted as other U.S. Navy ships. "T" prefixed to designation indicates assignment to MSTS.



LE JEUNE *U.S. Navy, Official.*

LE JEUNE (ex-*Windhuk*)

Launched: 1936

Displacement:	16,662 tons (19,200 tons *full load*)
Dimensions:	548 (*pp.*), 572½ (*o.a.*) × 72½ × 26½ feet
Guns:	1—5 inch, 4—3 inch, 8—40 mm. AA.
Machinery:	Geared turbines. 2 shafts. S.H.P.: 13,500 = 17.5 kts.
Boilers:	3 Babcock & Wilcox
Troops:	4,660

Notes.—Formerly German liner. No. AP 74. Out of commission, in reserve.

WAKEFIELD. *Added 1953, U.S. Navy, Official.*

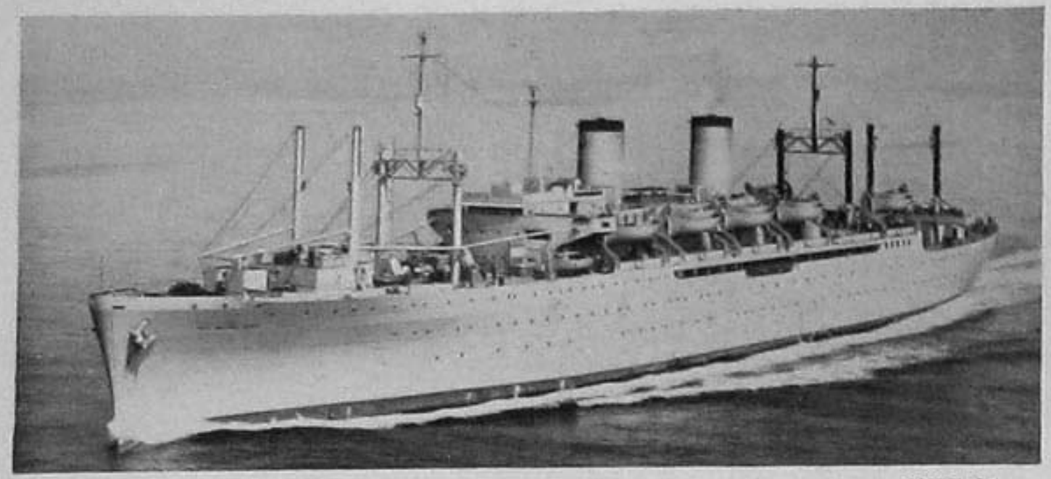
WAKEFIELD (ex-*Manhattan*)

Launched: 1932

Displacement:	22,800 tons (33,500 tons *full load*)
Dimensions:	668 (*pp.*), 705 (*o.a.*) × 86 × 30 (*max.*) feet
Guns:	4—5 inch
Machinery:	Geared turbines. 2 shafts. S.H.P.: 30,000 = 22 kts.
Troops:	7,500

Notes.—No. AP 21. Ex-liner. In Atlantic Reserve Fleet, New York Group, at Bayonne, New Jersey. To be broken up.
The U.S. Navy has been authorised to take over and convert into transports the two Pacific liners *Monterey* and *Mariposa*.

Transports.



GENERAL MAURICE ROSE. 1952, *Skyfotos.*

8 *M.C. Type P 2-SE2-R1*

T-AP
120 GEN. DANIEL I. SULTAN (ex-*Admiral W. S. Benson*)
121 GEN. HUGH. J. GAFFEY (ex-*Admiral W. L. Capps*)
122 GEN. ALEXANDER M. PATCH (ex-*Admiral R. E. Coontz*)
123 GEN. SIMON B. BUCKNER (ex-*Admiral E. W. Eberle*)

T-AP
124 GEN. EDWIN D. PATRICK (ex-*Admiral C. F. Hughes*)
125 GEN. NELSON M. WALKER (ex-*Admiral H. T. Mayo*)
126 GEN. MAURICE ROSE (ex-*Admiral Hugh Rodman*)
127 GEN. WILLIAM O. DARBY (ex-*Admiral W. S. Sims*)

Displacement : 9,676 tons (20,120 tons *full load*)
Dimensions : 609 (*o.a.*) × 75½ × 26½ (*max.*) feet
Machinery : Turbo-electric. 2 shafts. S.H.P. : 18,000 = 19 kts.

GENERAL M. B. STEWART. 1952, *Skyfotos.*

24 *Type C4-S-A1*

T-AP
134 GENERAL R. L. HOWZE
135 GENERAL W. M. BLACK
137 GENERAL S. D. STURGIS
138 GENERAL C. G. MORTON
139 GENERAL R. E. CALLAN
140 GENERAL M. B. STEWART
141 GENERAL A. W. GREELY
142 GENERAL C. H. MUIR

T-AP
143 GENERAL H B. FREEMAN
144 GENERAL H. F. HODGES
145 GENERAL HARRY TAYLOR
146 GENERAL W. F. HASE
147 GENERAL E. T. COLLINS
148 GENERAL M. L. HERSEY
149 GENERAL J. H. McRAE
150 GENERAL M. M. PATRICK

T-AP
151 GENERAL W. C. LANGFITT
153 GENERAL R. M. BLATCHFORD
154 GENERAL LEROY ELTINGE
155 GENERAL A. W. BREWSTER
156 GENERAL D. E. AULTMAN
157 GENERAL C. C. BALLOU
158 GENERAL W. G. HAAN
159 GENERAL STUART HEINTZELMAN

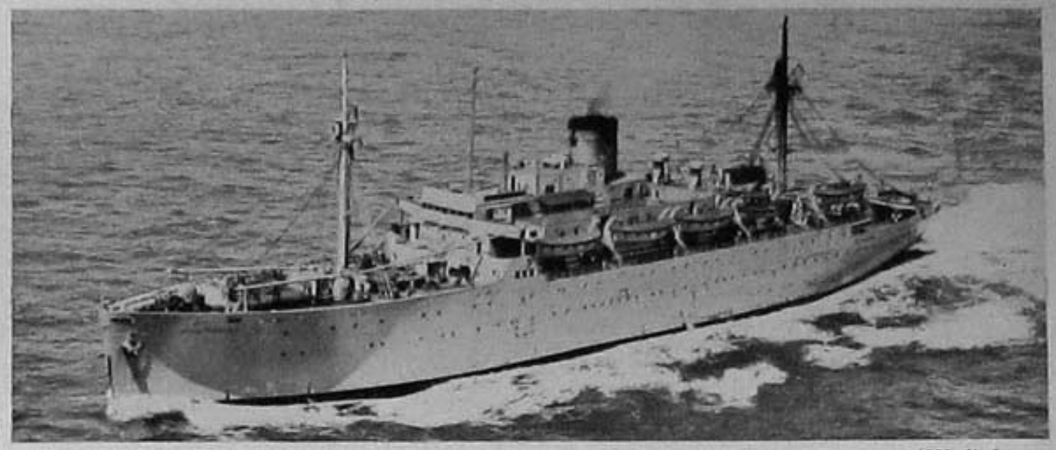
Displacement : 10,034 tons (17,250 tons *full load*)
Dimensions: 522¾ (*o.a.*) × 71½ × 26½ (*max.*) feet
Machinery : Turbine. S.H.P. : 9,000 = 17 kts.

2 *Type C3-S1-A3*

T-AP
178 FREDERICK FUNSTON

T-AP
179 JAMES O'HARA

Displacement 10,967 tons (16,150 tons *full load*)
Dimensions : 492 (*o.a.*) × 69½ × 26½ (*max.*) feet
Machinery : Turbine. S.H.P. : 8,500 = 18·6 kts.



GEORGE W. GOETHALS. 1952, *Skyfotos.*

4 *Type C3-IN-P & C*

T-AP
180 DAVID C. SHANKS
181 FRED C. AINSWORTH

T-AP
182 GEORGE W. GOETHALS
183 HENRY GIBBINS

Displacement : 9,000 tons (*full load*)
Dimensions : 492 (*o.a.*) × 69½ × 26½ (*max.*) feet
Machinery : Turbine. S.H.P. : 8,500 = 16·5 kts.

PRIVATE WILLIAM H. THOMAS. 1952, *Skyfotos.*

3 *Type C2-S1-A1*

T-AP
184 PRIVATE ELDEN H. JOHNSON (ex-*Pinkney*)

T-AP
185 PRIVATE WILLIAM H. THOMAS (ex-*Rixey*)
186 SERGEANT CHARLES E. MOWER (ex-*Tryon*)

Displacement : 7,791 tons (10,885 tons *full load*)
Dimensions : 450 (*o.a.*) × 62 × 23½ (*max.*) feet
Machinery : Turbine : S.H.P. : 8,500 = 18·2 kts.

6 *Type VC2-S-AP2*

T-AP
187 PRIVATE JOE P. MARTINEZ
188 AIKEN VICTORY
189 LT. RAYMOND O. BEAUDOIN

T-AP
190 PVT. SADAO S. MUNEMORI
191 SGT. HOWARD E. WOODFORD
192 SGT. SYLVESTER ANTOLAK
} Maritime Administration

Displacement: 6,700 (12,000 tons *full load*), 7,612 tons *gross*
Dimensions: 455 (*o.a.*) × 62 × 29 (*max.*) feet
Machinery: Geared turbine. S·H·P.: 6,000 = 15.6 kts.

7 *Type C4-S-A3*

T-AP
193 MARINE ADDER
194 MARINE LYNX

T-AP
195 MARINE PHOENIX
199 MARINE CARP

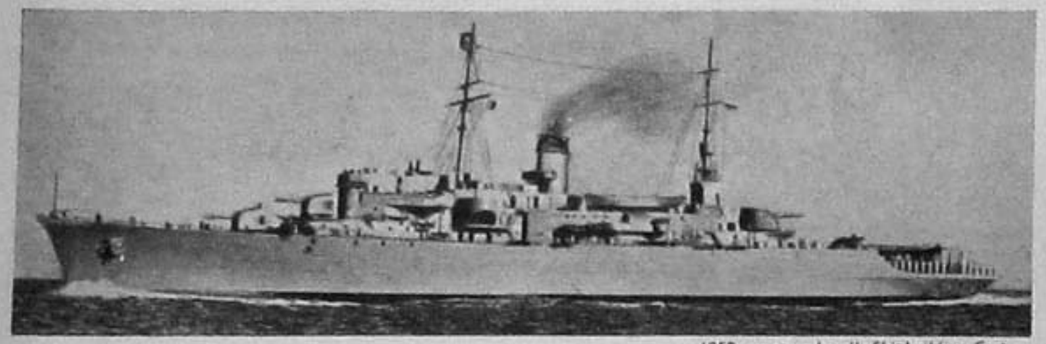
T-AP
202 MARINE SERPENT

T-AP
200 MARINE JUMPER
201 MARLIN

Measurement : 12,420 tons *gross* (carry 3,485 troops)
Dimensions : 523 (*o.a.*) × 72 × 26
Machinery : Geared turbines. S.H.P. : 9,000 = 17 kts.

113R

Net Carrier (Ocean-going)



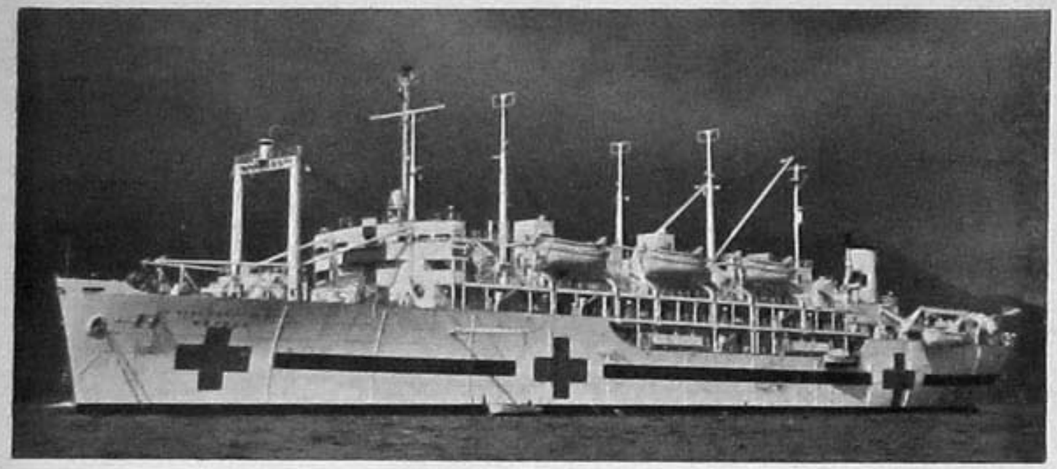
1950, courtesy Ingalls Shipbuilding Corp

GALILEA (ex-*Montauk*)

Launched :	14 Mar., 1943
Displacement :	5,100 tons (8,000 tons *full load*)
Dimensions :	440 (*w.l.*), 451½ (*o.a.*) × 60½ × 20 (*max.*) feet
Guns :	2—5 inch, 38 cal., 8—40 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 11,000 = 20 kts.
Boilers :	4 Combustion Engineering type

Notes.—AKN 6 (ex-*LSV* 6, ex-*AP* 161). Specially converted by Ingalls Shipbuilding Corporation, Pascagoyla, as a net cargo ship. Out of commission, in reserve.

Hospital Ships.



REPOSE.

1950, *Sub.-Lt. A. Sugden, R.N.*

CONSOLATION (ex-*Marine Walrus*)
HAVEN (ex-*Marine Hawk*)
REPOSE (ex-*Marine Beaver*)

SANCTUARY (ex-*Marine Owl*, Aug. 15, 1944)
TRANQUILLITY (ex-*Marine Dolphin*)

Displacement	11,141 tons (15,400 tons *full load*)
Dimensions :	496 (*w.l.*), 520 (*o.a.*) × 71½ × 24 (*max.*) feet
Machinery :	Geared turbines. S.H.P. : 9,000 = 18·3 kts
Boilers :	2 Babcock & Wilcox
Complement :	568-574

Notes.—All built by the Sun S.B. & D.D. Co. Maritime Commission C 4-5-B 2 Type. Beds for 802 patients. Air conditioned throughout *Sanctuary* commissioned June 20, 1945. AH 15, 12, 16, 17, 14. *Benevolence* sank after collision with freighter off San Francisco Aug. 1950. *Consolation*, *Haven* and *Repose* have a flight deck aft (square red cross landing platform) for the reception and air evacuation of wounded by helicopter. Remaining vessels to be modified similarly.

Surveying Ships (AGS).

2 Attack Cargo Ship Type.

TANNER.

Added, 1952, Mr. A. F. Nicholas.

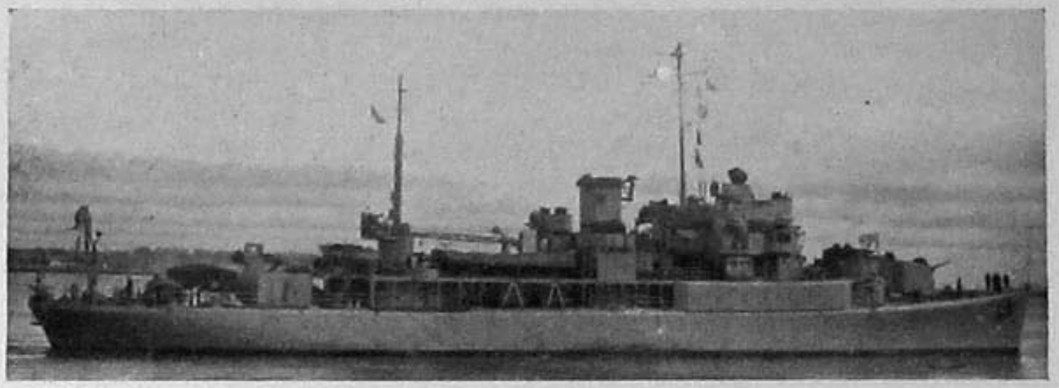
MAURY (ex-*Renate*)

TANNER (ex-*Pamino*)

Displacement :	4,203 tons (7,000 tons *full load*)
Dimensions :	400 (*w.l.*), 426 (*o.a.*) × 58 × 15½ (*max.*) feet
Guns :	1—5 inch, 8—40 mm. AA.
Machinery :	Turbo-electric. 2 shafts. S.H.P. : 6,600 = 16·9 kts.
Boilers :	2 Wickes

Notes.—AGS 16 (AKA 36) and AGS 15 (AKA 34), respectively. Both launched 1944. Converted in 1946.

2 Seaplane Tender Type.



REHOBOTH.

1953, *P. Sweeney.*

REHOBOTH (8 Nov. 1942)

SAN PABLO (31 Mar. 1942)

Displacement :	1,766 tons (2,800 tons *full load*)
Dimensions :	310½ (*o.a.*) × 41 × 13½ (*max.*) feet
Guns :	1—5 inch, 38 cal., 5—40 mm. AA.
Machinery :	Diesel-electric. 2 shafts. B.H.P. : 7,080 = 18·2 kts.
Complement :	215

Notes.—Former Seaplane Tenders (Small), These vessels were reclassified as AGS and assigned to duties as deep-sea hydrographic-surveying ships under the technical control of the Hydrographer. AGS. 50 and 30, respectively. Launch dates above.

Surveying Ships—*continued.*

4 Fleet Minesweeper Type.

PREVAIL (13 Sep. 942)
PURSUIT (12 June, 1942)
REQUISITE (25 July, 1942)
SHELDRAKE (12 Feb. 1942)

Displacement :	890 tons (1,250 tons *full load*)
Dimensions :	221½ (*o.a.*) × 32½ × 11 (*max.*) feet
Guns :	1—3 inch d.p., 2—40 mm. AA.
Machinery :	Diesel-electric. 2 shafts. B.H.P. : 3,532 = 18 kts.
Complement :	100

Notes.—Former minesweepers AM 107, AM 108, AM 109 and AM 62 respectively, reclassified as surveying vessels, AGS 20, AGS 18 and AGS 19 early in 1952. Launch dates above.

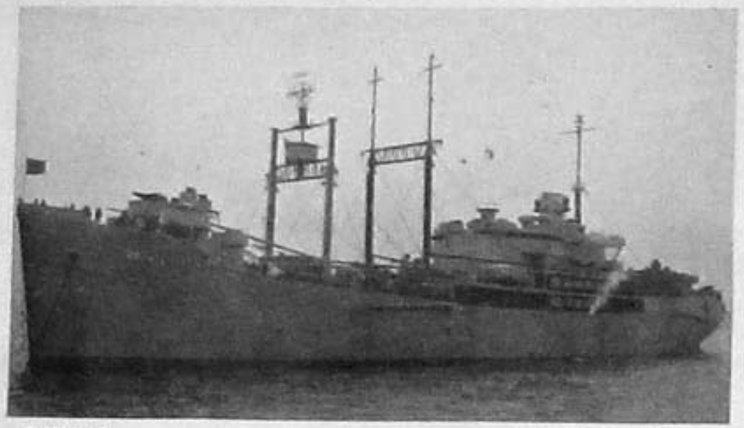
Degaussing Vessels.

ADG 8 (ex-*PCE* 876)
ADG 9 (ex-*PCE* 879)
ADG 10 (ex-*PCE* 883)
ADG 11 (ex-AM 359)

Displacement :	640 tons (900 tons *full load*)
Dimensions :	184½ (*o.a.*) × 33 × 9½ feet
Machinery :	Diesel. 2 shafts. B.H.P. : 2,400 = 16 kts.

Submarine Tenders.

1 "Euryale" Class.



EURYALE. 1947, *U.S. Navy, Official.*

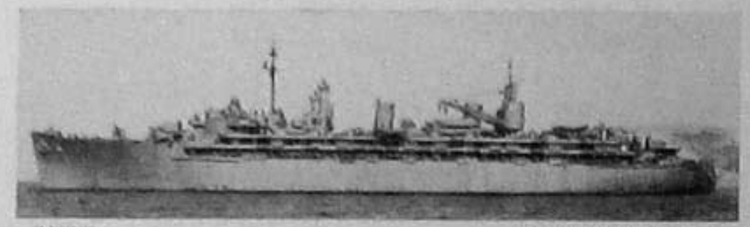
EURYALE

Displacement :	8,282 tons (15,400 tons *full load*)
Dimensions :	492½ (*o.a.*) × 69½ × 25 feet
Guns :	1—5 inch, 38 cal., 4—3 inch, 50 cal.
Machinery :	Geared turbine. S.H.P. : 8,500 = 16·5 kts.

Note.—No. AS 22. Modified C3 type.

Submarine Tenders—*continued.*

7 "Fulton" Class.



ORION. 1950, *U.S. Navy, Official.*

4 Mare Island Navy Yard
FULTON (Dec. 17, 1940)
SPERRY (Dec. 17, 1941)
BUSHNELL (Sept. 14, 1942)
HOWARD W. GILMORE (ex-Neptune, Sept. 16, 1943)

1 Puget Sound Navy Yard
NEREUS (Feb. 12, 1945)

2 Moore Dry Dock Co., Oakland, Calif.
ORION (Oct. 14, 1942)
PROTEUS (Nov. 12, 1942)

Displacement :	9,734 tons (18,000 tons *full load*)
Dimensions :	530½ (*o.a.*) × 73½ × 25½ (*max.*) feet
Guns :	4—5 inch, 10—40 mm. AA., 20—20 mm. AA.
Machinery :	G.M. Diesels with electric drive. B.H.P. : 11,200 = 15·4 kts.
Complement :	1,300

Notes.—*Fulton* authorised under 1938 Programme, others under 1940. (AS 11, 21, 15-19.) Ships vary in detail.

4 "Aegir" Class.

AEGIR
ANTHEDON
APOLLO
CLYTIE

Displacement :	8,100 tons (16,100 tons *full load*)
Dimensions :	492 (*o.a.*) × 69½ × 26½ (*max.*) feet
Guns :	1—5 inch, 38 cal., 4—3 inch, 50 cal.
Machinery :	Turbine. S.H.P. : 8,500 = 18·4 kts.

Notes.—Nos. 23-26. C3-S-A2 type. Out of commission, in reserve.

2 "Griffin" Class.

PELIAS. 1952, *U.S. Navy Official.*

GRIFFIN (ex-*Mormacpenn*, Nov. 10, 1939)
PELIAS (ex-*Mormacyork*, Nov. 14, 1939

Displacement :	8,600 tons (14,500 tons *full load*)
Dimensions :	492 × 69½ × 24½ (*max.*) feet
Guns :	4—3 inch, 50 cal.
Machinery :	4 sets Busch-Sulzer Diesels. B.H.P. : 8,500 = 16·5 kts.
Complement :	1,513

Notes.—C3 Cargo type. Nos. AS 13, 14. Out of commission, in reserve.

Seaplane Tenders (Small).

14 "Barnegat" Class.

DUXBURY BAY. 1953, *A. & J. Pavia.*

SUISUN 1946, *Mr. W. H. Davis.*

BARNEGAT
CORSON
DUXBURY BAY
FLOYDS BAY
GARDINERS BAY
GREENWICH BAY
ONSLOW
ORCA
OYSTER BAY
SAN CARLOS
SHELIKOF
SUISUN
TIMBALIER
VALCOUR

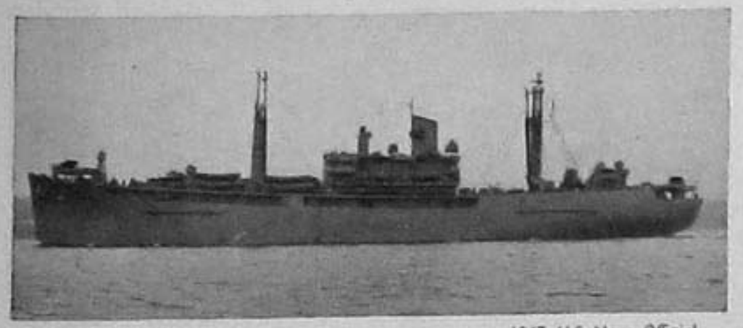
Displacement :	1,766 tons (2,800 tons *full load*)
Dimensions :	300 (*w.l.*), 310½ to 311½ (*o.a.*) × 41 × 13½ (*max.*) feet
Guns :	1—5 inch, 38 cal., 5—40 mm. AA. (but guns vary)
Machinery :	2 sets Diesels. 2 shafts. B.H.P. : 6,080 = 18·2 kts.
Complement :	215

Notes.—Original main armament of 4—5 inch was severely reduced to save top weight. Stern armament varies: *Suisun* none on stern, *Onslow* 1—5 inch, 38 cal., open mount, *Floyds Bay* quadruple 40 mm. AA. *Absecon, Barataria, Bering Strait, Casco, Castle Rock, Chincoteague, Cook Inlet, Coos Bay, Half Moon, Humboldt, Mackinac, Maragorda, Rockaway, Unimak, Yakutat* lent to Coast Guard for duty as weather Ships. *Rehoboth* and *San Pablo* fitted for oceanographical surveying. Other ships of this class have been adapted for various duties. *Oyster Bay* is former Motor Torpedo Boat Tender (AGP6).

No.	Name	Builders	Launched
AVP 10	*Barnegat*	Puget Sound	25 May, 1941
28	*Oyster Bay*		7 Sep. 1942
37	*Corson*		15 July 1944
38	*Duxbury Bay*		2 Oct. 1944
40	*Floyds Bay*		28 Jan. 1945
39	*Gardiners Bay*		2 Dec. 1944
41	*Greenwich Bay*		18 Mar. 1945
48	*Onslow*	Lake Washington	20 Sept. 1942
49	*Orca*	Shipyard	4 Oct. 1942
51	*San Carlos*		20 Dec. 1942
52	*Shelikof*		31 Jan. 1943
53	*Suisun*		14 Mar. 1943
54	*Timbalier*		18 Apr. 1943
55	*Valcour*		5 June, 1943

Destroyer Tenders.

10 "Everglades" Class.



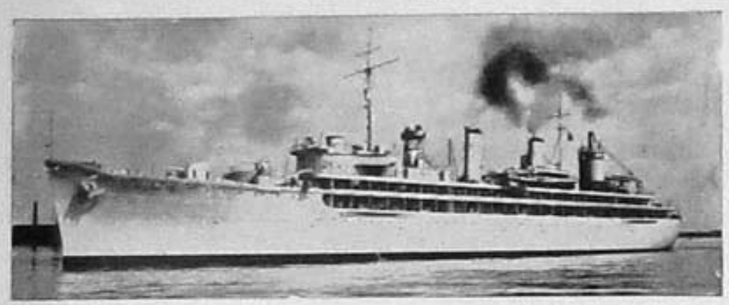
GRAND CANYON. 1947, *U.S. Navy, Official.*

ARCADIA (Nov. 19, 1944)
BRYCE CANYON (7 Mar. 1946)
EVERGLADES (Jan. 28, 1945)
FRONTIER (March 25, 1945)
GRAND CANYON (April 27, 1945)
ISLE ROYAL
KLONDIKE (Aug. 12, 1944)
SHENANDOAH (March 29, 1945)
TIDEWATER (June 30, 1945)
YELLOWSTONE (April 12, 1945)

Displacement :	8,165 tons (16,635 tons *full load*)
Dimensions :	465 (*w.l.*), 492 (*o.a.*) × 69½ × 27½ feet
Guns :	1—5 inch, 4—3 inch, 4—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 8,500 = 18·4 kts.
Boilers :	2 Foster-Wheeler or Babcock & Wilcox
Complement :	826

Notes.—By Todd Shipyards, and other builders. Nos. AD 23, 36, 24, 25, 28, 29, 22, 26, 31, 27, respectively. Three other ships (*Arrowhead, Canopus, New England*) were cancelled in 1945, and a fourth (*Great Lakes*) sold. *Frontier* commissioned March 2, 1946. *Bryce Canyon* completed Dec. 20, 1949.

5 "Dixie" Class.



PRAIRIE. 1941, *U.S. Navy, Official.*

2 *New York S.B. Corpn.* 3 *Tampa S.B. Co.*

DIXIE (May 27, 1939)
PRAIRIE (Dec. 9, 1939)
PIEDMONT (Dec. 7, 1942)
SIERRA (Feb. 23, 1943)
YOSEMITE (May 16, 1943)

Displacement	9,450 tons (17,176 tons *full load*)
Dimensions :	520 (*w.l.*), 530½ (*o.a.*) × 73½ × 25½ feet
Guns :	4—5 inch, 38 cal., 8—40 mm. AA.
Machinery :	Geared turbines. 2 shafts S.H.P. : 11,000 = 19·6 kts.
Complement :	1,262 (war)

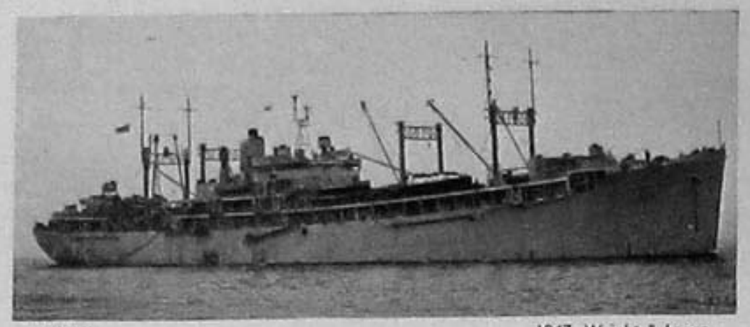
Notes.—Nos. AD 14, 15, 17, 18, 19 respectively *Piedmont* commissioned Jan. 5, 1944.

Destroyer Tenders—*continued.*

CASCADE

Launched	7 June, 1942
Displacement	9,800 tons (16,600 tons *full load*)
Dimensions :	492 (*o.a.*) × 69½ × 27½ (*max.*) feet
Guns :	2—5 inch, 38 cal., 6—40 mm. AA.
Machinery :	Turbines. S.H.P. : 8,500 = 18·4 kts.
Complement :	860

Note.—No. AD 16.



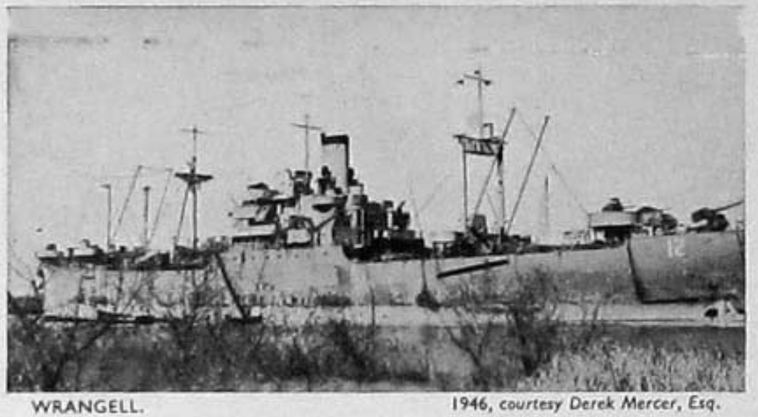
HAMUL. 1947, *Wright & Logan.*

HAMUL (ex-*Dr. Lykes*, April 6, 1940)
MARKAB (ex-*Mormacpenn*, Dec. 21, 1940)

Displacement :	8,560 tons (14,800 tons *full load*)
Dimensions :	465 (*pp.*), 492 (*o.a.*) × 69½ × 24½ feet
Guns :	1—5 inch, 4—3 inch, 4—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 8,500 = 18·4 kts.
Boilers :	2 Foster-Wheeler
Complement :	857

Note.—Nos. AD 20, 21, respectively.

Ammunition Ships.



WRANGELL. 1946, *courtesy Derek Mercer, Esq.*

DIAMOND HEAD (Feb. 3, 1945)
FIREDRAKE (ex-*Winged Racer*)
GREAT SITKIN
MOUNT KATMAI
PARICUTIN
VESUVIUS (ex-*Gamecock*)
WRANGELL

Displacement :	15,295 tons (*full load*)
Dimensions :	435 (*w.l.*) 459½ (*o.a.*) × 63 × 28½ feet
Guns :	1—5 inch, 4—3 inch, 4—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 6,000 = 16·4 kts.
Complement :	267

Note.—Nos. AE 19, 14, 17, 16, 18, 15, 12, respectively.

Ammunition Ships—*continued.*

AKUTAN (Sept. 17, 1944)
MAUNA LOA (April 14, 1943)
MAZAMA (Aug. 15, 1943)

Displacement :	5,220 tons (13,856 tons *full load*)
Dimensions :	459 (*o.a.*) × 63 × 26½ (*max.*) feet
Guns :	1—5 inch, 4—3 inch, 4—40 mm. AA.
Machinery :	Diesel. B.H.P. : 6,000 = 15·3 kts.
Complement :	280

Notes.—Modified C2 type, converted by Navy. Carries 5,000 tons of cargo. Nos. AE 13, 8, 9, respectively.

SHASTA. 1944, *U.S. Navy, Official.*

LASSEN (ex-*Shooting Star*, Jan. 1, 1940)
MOUNT BAKER (ex-*Kilauea*, ex-*Surprise*, Aug. 6, 1940)
RAINIER (ex-*Rainbow*, March 1, 1941)
SHASTA (ex-*Comet*, July 9, 1941)

Displacement :	6,350 tons (14,225 *full load*)
Dimensions :	435 (*w.l.*), 459 (*o.a.*) × 63 × 26½ feet
Guns :	1—5 inch, 4—3 inch, 4—40 mm. AA.
Machinery :	2 Nordberg Diesels. B.H.P. : 6,000 = 15 kts.
Complement :	281

Notes.—Built by Tampa S.B. Co. Nos. AE 3, 4, 5, 6, respectively. War loss: *Mount Hood.*

SANGAY. *Added 1948, U.S. Navy, Official.*

SANGAY (ex-*Cape Sable*)

Launched :	1941
Displacement :	5,826 tons (11,653 tons *full load*)
Dimensions :	390 (*w.l.*), 412½ (*o.a.*) × 60 × 23½ feet
Guns :	1—5 inch, 4—3 inch, 4—40 mm. AA.
Machinery :	Nordberg Diesel. B.H.P. : 4,000 = 14·5 kts.
Complement :	308

Notes.—No. AE 10. Maritime Commission C1-A (Diesel) type.

FORMALHAUT (ex-*Cape Lookout*)

Launched :	25 Jan. 1941
Displacement :	5,826 tons (11,653 tons *full load*)
Dimensions :	390 (*w.l.*), 412½ (*o.a.*) × 60 × 23½ feet
Guns :	1—5 inch, 4—3 inch, 2—40 mm. AA.
Machinery :	Nordberg Diesel. B.H.P. : 4,150 = 14·8 kts.
Complement :	308

Noet.—Former No. AK 22 redesignated No. AE 20. Type Cl-A similar to *Sangay* above

Repair Ships.

2 "Amphion" Class.

AMPHION. *Added 1948, U.S. Navy, Official.*

AMPHION (May 15, 1945) **CADMUS** (1945)

Displacement :	7,826 tons (16,900 tons *full load*)
Dimensions :	456 (*w.l.*), 492 (*o.a.*) × 70 × 27¼ feet
Guns :	2—5 inch, 8—40 mm. AA.
Machinery :	Westinghouse turbines. S.H.P. : 8,500 = 17 kts.
Boilers :	2 Foster-Wheeler
Complement :	921

Notes.—Nos. AR 13, 14, Launch dates above. *Deucalion* and *Mars*, of this type, cancelled.

17 "EC 2" Type.

WEBSTER. *Added 1948, U.S. Navy, Official.*

CEBU (ex-*Francis P. Duffy*)
CHOURRE (ex-*Dumaran*)
CULEBRA ISLAND (ex-*John F. Goucher*)
DIONYSUS
HOOPER ISLAND (ex-*Bert McDowell*)
KERMIT ROOSEVELT (ex-*Deal Island*, Oct. 5, 1944)
LAERTES
LUZON (ex-*Samuel Bowles*)
MAUI (ex-*Leyte*)
MINDANAO (ex-*Elbert Hubbard*)
MONA ISLAND
OAHU (ex-*Caleb C. Wheeler*)
PALAWAN (Aug. 12, 1944)
SAMAR
TUTUILA (ex-*Arthur P. Gorman*)
WEBSTER (ex-*Masbate*, Aug. 5, 1944)
XANTHUS

Displacement :	5,766 tons (14,350 tons *full load*)
Dimensions :	416 (*w.l.*), 441½ (*o.a.*) × 57 × 23 (*mean*) feet
Machinery :	Triple expansion. I.H.P. : 2,500 = 12·5 kts.
Boilers :	2 Babcock & Wilcox.

Notes.—Liberty ships. *Dionysus*, *Laertes*, *Xanthus*, numbered AR 21, 20, 19 ; *Chourre*, *Webster* (Aircraft Repair Ships), ARV 1, 2 ; others are Internal Combustion Engine Repair Ships, ARG 6, 7, 17, 16, 2, 8, 3, 9, 5, 10, 11, 4, respectively. *Chourre* is serving as an Aviation Supply Ship.

4 "Vulcan" Class.

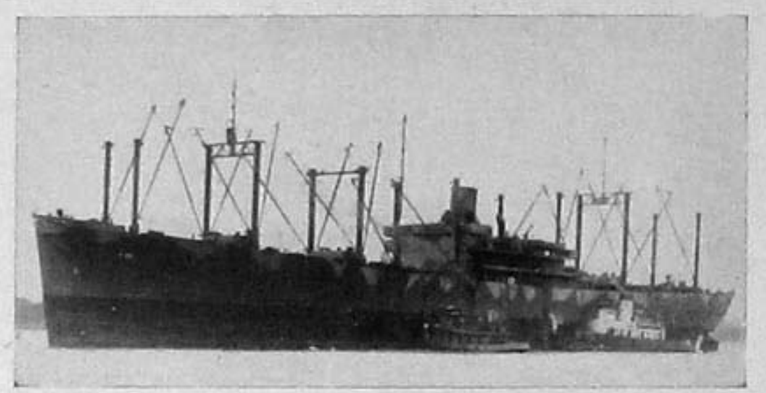
VULCAN. *1942 U.S. Navy, Official.*

AJAX (Aug. 22, 1942) **JASON** (April 3, 1943)
HECTOR (Nov. 11, 1942) **VULCAN** (Dec. 14, 1940)

Displacement :	9,140 tons (16,200 tons *full load*)
Dimensions :	520 (*w.l.*), 529½ (*o.a.*) × 73½ × 23½ feet
Guns :	4—5 inch, 8—40 mm. AA.
Machinery :	Geared turbines. 2 shafts. S.H.P. : 11,000 = 19·2 kts.
Boilers :	4 Babcock & Wilcox 3-drum
Complement :	1,297 (war)

Notes.—*Vulcan* built by New York S.B. Corpn. under 1939 Programme. Other three by Los Angeles S.B. & D.D. Corpn. under 1940 Programme. All these ships carry a most elaborate equipment of machine tools in order that they may undertake repairs of every possible description. *Jason* (ARH 1) is rated as heavy hull repair ship. Others are numbered AR 5-7.

2 "Delta" Class.



DELTA. *1944, U.S. Navy, Official.*

BRIAREUS (ex-*Hawaiian Planter*) **DELTA** (ex-*Hawaiian Packer*)

Displacement :	8,975 tons (14,500 tons *full load*)
Dimensions :	645½ (*pp.*), 490½ (*o.a.*) × 69½ × 24½ feet
Guns	1—5 inch, 4—3 inch, 4—40 mm. AA.
Machinery :	Geared turbines. S.H.P. : 8,500 = 17 kts.
Boilers :	2 Foster-Wheeler and 2 Babcock & Wilcox, repectively.

Notes.—Both launched 1941. Nos. AR 12, 9. Photo of *Delta* was taken when the ship was a merchantman. Appearance now altered.

46 Ex-LST Type.

MENELAUS. *1953, A. & J. Pavia.*

ACHELOUS (*ex-LST 10*)	ARL 1	**MEGARA** (*ex-LST 1095*)	ARVA 6
ADONIS (*ex-LST 83*)	ARL 4	**MENELAUS** (*ex-LST 971*)	ARL 13
AMPHITRITE (*ex-LST 1124*)	ARL 29	**MIDAS** (*ex-LST 524*)	ARB 5
AMYCUS (*ex-LST 489*)	ARL 2	**MINOS** (*ex-LST 644*)	ARL 14
ARISTAEUS (*ex-LST 329*)	ARB 1	**MINOTAUR** (*ex-LST 645*)	ARL 15
ASKARI (*ex-LST 1131*)	ARL 30	**MYRMIDON** (*ex-LST 948*)	ARL 16
ATLAS (*ex-LST 231*)	ARL 7	**NUMITOR** (*ex-LST 954*)	ARL 17
AVENTINUS (*ex-LST 1092*)	ARVE 3	**OCEANUS** (*ex-LST 328*)	ARB 2
BELLEROPHON (*ex-LST 1132*)	ARL 31	**PANDEMUS** (*ex-LST 650*)	ARL 18
CHIMAERA (*ex-LST 1137*)	ARL 33	**PENTHEUS** (*ex-LST 1115*)	ARL 20
CHLORIS (*ex-LST 1094*)	ARVE 4	**PHAON** (*ex-LST 15*)	ARB 3
CORONIS (*ex-LST 1003*)	ARL 10	**POSEIDON** (*ex-LST 1037*)	ARL 12
CREON (*ex-LST 1036*)	ARL 11	**PROSERPINE** (*ex-LST 1116*)	ARL 21
DAEDALUS (*ex-LST 1143*)	ARL 25	**QUIRINUS** (*ex-LST 1151*)	ARL 39
DEMETER (*ex-LST 1121*)	ARB 10	**ROMULUS** (*ex-LST 926*)	ARL 2
DIOMEDES (*ex-LST 1119*)	ARB 11	**SARPEDON** (*ex-LST 956*)	ARB 72
EGERIA (*ex-LST 136*)	ARL 8	**SATYR** (*ex-LST 852*)	ARL 23
ENDYMION (*ex-LST 513*)	ARL 9	**SPHINX** (*ex-LST 963*)	ARL 24
FABIUS (*ex-LST 1093*)	ARVA 5	**STENTOR** (*ex-LST 858*)	ARL 26
GORDIUS (*ex-LST 1145*)	ARL 36	**TELEMON** (*ex-LST 957*)	ARB 8
HELIOS (*ex-LST 1127*)	ARB 12	**TYPHON** (*ex-LST 1118*)	ARL 28
INDRA (*ex-LST 1147*)	ARL 37	**ULYSSES** (*ex-LST 967*)	ARB 9
KRISHNA (*ex-LST 1149*)	ARL 38	**ZEUS** (*ex-LST 132*)	ARB 4

Displacement :	1,625 tons
Dimensions :	316 (*w.l.*), 328 (*o.a.*) × 50 × 11 feet
Guns :	8—40 mm. AA.
Machinery :	Diesel. 2 shafts. B.H.P. : 17,000 = 11 kts.

Notes.—Four types: 11 ARB, 31 ARL, 2 ARV and 2 ARVE. All launched 1942-45. Rated as Repair Ships for Battle Damage (ARB 1-5, 7-12) for Landing Craft (ARL 1, 2, 4, 7-18, 20-24, 26, 28-31, 33, 35-39), and Aircraft Repair Ships for Aircraft Engines (ARVE 3-4), Airframes (ARVA 5, 6). *Agenor* (ex-LST 490) ARL 3 was ceded to France 2 Mar. 1951. *Patrolcus* ARL 19, (ex-LST 955) transferred to Turkey 1952.

Cable Repair Ships.

NASHAWENA (YAG 35, ex-AG 142)

Displacement :	743 tons (1,095 tons *full load*)
Dimensions :	154 (*o.a.*) × 36 × 6 feet
Speed :	10 kts. (*trials*)

Note.—Wooden cable ship. Officially classified as District Miscellaneous Auxiliary.

ARC 1 (ex-*LSM 275*)

Displacement :	743 tons (1,095 tons full load).
Dimensions :	203½ (*o.a.*) × 34½ × 8½ feet
Machinery :	Diesel. 2 shafts. B.H.P. : 2,800 = 12 kts.
Complement :	41

Note.—Cable Repairing or Laying Ship. Converted 1952. ARC 1 is the Navy's first commissioned cable ship specially built to lay and repair "sofar" cables for the "sofar" search and rescue system, and makes surveys for prospective hydrophone sites. Has new superstructure on centre line, kingposts fore and aft to support booms. Bow and stern sheaves can handle cable to depths of 700 fathoms. Accepted 19 Aug. 1952. "Sofar" is a device which picks up underwater disturbances from thousands of miles away and transmits them to stations where they can be triangulated ,and the position from which they have come can be calculated.

Aviation and Ordnance Supply Ships.

JUPITER (ex-*Santa Catalina, ex-Flying Cloud*)

Launched :	30 Sept., 1939
Displacement :	6,050 tons (13,860 tons *full load*)
Dimensions :	459 (*o.a.*) × 63 × 26½ (*max.*) feet
Mach nery :	Turbine : S.H.P. : 6,000 = 16·5 kts.

Notes.—No. AVS 8 (AK 43). Same type (C2-Cargo) as above. Aviation Supply Ship. *Chourre* (see previous page, "EC 2" type) is also Aviation Supply Ship.

CHIMON (ex-LST 1102)
COLINGTON (ex-LST 1085)
ELECTRON (ex-LST 1070)
LEAGUE ISLAND (ex-LST 1097
PROTON (ex-LST 1078)

Notes.—AKS 31, 29, 27, 30, 28. Formerly AG, 150, 148, 146, 149, 147, respectively. *Chimon* and *League Island* are classed as Ordnance Fleet Issue Supply Ships.

General Stores Issue Ships.

6 "Island" Class.

AVERY ISLAND
BELLE ISLE
COASTER'S HARBOR
CUTTYHUNK ISLAND
INDIAN ISLAND
KENT ISLAND

Displacement :	5,766 tons (14,350 tons *full load*)
Dimensions :	422½ (*pp.*), 441½ (*o.a*) × 57 × 23 feet
Guns :	1—5 inch, 4—40 mm. AA.
Machinery :	Triple expansion. I.H.P. : 2,500 = 12·5 kts.
Boilers :	2 Babcock & Wilcox

Notes.—All launched 1944, Liberty ships. AKS 24, 21, 22, 23, 25, 26. Stores Issue Ships. Out of commission, in reserve.

3 "Mercury" Class.

MERCURY. 1946, *Mr. W. H. Davis.*

CASTOR (ex-*Challenge*)
MERCURY (ex-*Mormoctern, ex-Lightning*)
POLLUX (ex-*Nancy Lykes*)

Displacement :	6,365, 5,994, 6,335 tons *light*, respectively (13,860 to 14,400 tons *full load*)
Dimensions :	435 (*pp.*), 459½ (*o.a.*) × 63 × 26½ (*max.*) feet
Guns :	1—5 inch, 4—3 inch
Machinery :	Geared turbines. S.H.P. : 6,000 = 16·4 kts.
Boilers :	2 Babcock & Wilcox
Cargo Capacity :	5,400 tons

No.	*Name*	*Type*	*Launched*
AKS 1	*Castor*	C2 Cargo	20 May 1939
AKS 20 (AK 42)	*Mercury*	C2	15 July 1939
AKS 4 (AK 54)	*Pollux*	C2-F	1941

ALTAIR (ex-*Aberdeen Victory*)

Displacement :	4420 tons *light* (15,580 tons *full load*)
Dimensions :	455½ (*o.a.*) × 62 × 28½ (*max.*) feet
Machinery :	Geared turbines. S.H.P. : 8,500 = 16·5 kts.

Notes.—VC 2-AP 3 type. Laid down 1944. AKS 32 (ex-AK 257). Reclassed as AKS 1952.

Store Ships.

(All with refrigerated hold space

PICTOR (ex-*Great Republic*)

Notes.—Transferred from Maritime Administration to U.S. Navy. AF 54. C2-S-B1 type similar to R2-S-BV1 design, except that R2s were built as refers and C2s as cargo ships. Same type as "Eagle" class.

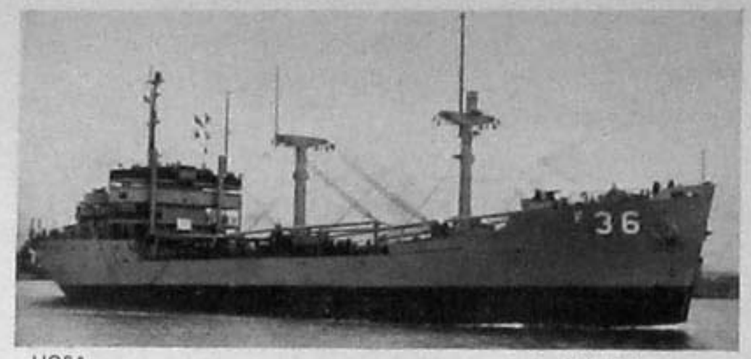
3 "Alstede" Class.

ALSTEDE **ALUDRA** (ex-*Matchless*) **ZELIMA**

Displacement :	6,914 tons (15,500 tons *full load*)
Dimensions :	459½ × 63 × 28 feet
Machinery :	Turbine. S.H.P. : 6,000 = 16 kts.

Notes.—Nos. AF 48, AF 55, and AF 49, respectively, launched 1945 and 1946. R2-S-B1 design reefer type. *Aludra* acquired for conversion by Navy.

9 "Adria" Class.



LIOBA. 1953, *P. Sweeney.*

ADRIA
AREQUIPA
BONDIA
CORDUBA
KARIN
LIOBA
MALABAR
MERAPI
VALENTINE

Displacement:	3,139 tons (7,534 tons *full load*)
Dimensions:	320 (*w.l.*), 338½ (*o.a.*) × 50 × 21 (*max.*) feet
Guns:	1—3 inch
Machinery:	Nordberg Diesel. B.H.P.: 1,700=11·5 kts.

Notes.—All launched 1944. AF 30-33, 36-38, 42, 47. *Kerstin* and *Latona* (reserve) returned to Maritime Commission. 2,100 tons cargo. R1-M-AV 3 type. *Bondia* and *Valentine* assigned to Military Sea Transportation Service, 1 July 1951, unarmed, designated U.S.N.S.

T-AF
44 LAURENTIA (ex-*Wall and Crown*)

Displacement :	2,460 tons (7,450 tons *full load*)
Dimensions :	338½ × 50 × 21 feet
Machinery :	Diesel. B.H.P. : 1,750 = 11·5 kts.

Notes.—Military Sea TransportationService ships (USNS). Same type, R1-M-AV3, as "Adria" class above. Sister ship *Grommet Reefer* was wrecked in Leghorn harbour 15 Dec. 1952.

2 "Victory" Type.

DENEBOLA (ex-*Hibbing Victory*) **REGULUS** (ex-*Escanaba Victory*)

Measurement :	8,000 tons *deadweight*
Dimensions :	455 × 62 × — feet
Speed :	16½ kts.

Note.—Maritime Administration ships acquired by U.S. Navy, 1952, for conversion to refrigerator store ships. AF 56 and AF 57, respectively. VC2-S-AP 3 type

Store Ships—*continued.*

2 "Graffias" Type.

GRAFFIAS (ex-*Topa Topa*) **HYADES** (ex-*Iberville*)

Displacement :	6,313 tons *light* (15,300 tons *full load*)
Dimensions :	445 (*pp.*), 463½ (*o.a.*) × 63 × 28 feet
Guns :	1—5 inch, 4—3 inch
Machinery :	Geared turbines. S.H.P. : 6,000 = 15·5 kts.
Boilers :	2 Babcock & Wilcox
Complement :	252

Notes.—AF 29 and 28. Launched 1943 and 1942, respectively. Cargo capacity : 5,300 tons.

ALDEBARAN. 1952 *Mr. Frank Uhlig.*

ALDEBARAN ex-*Staghound*

Launched :	June 21, 1939
Displacement	6,501 tons (13,860 tons *full load*)
Dimensions :	435 (*w.l.*), 459½ (*o.a.*) × 63 × 25½ (*max.*) feet
Guns :	1—5 inch, 4—3 inch
Machinery :	Geared turbines. S.H.P. : 6,000 = 16·4 kts.
Boilers :	2 Babcock & Wilcox

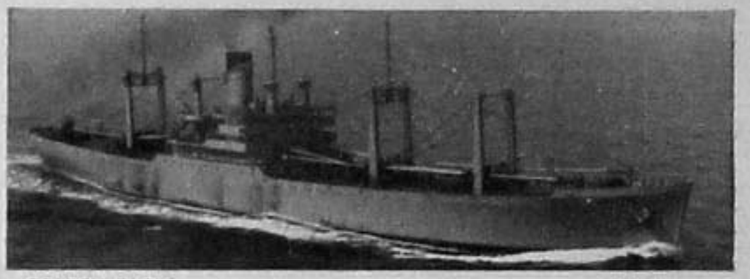
Notes.—No. AF 10. C-2 Cargo (S) type.

POLARIS

Launched :	1939
Displacement :	6,350 tons (14,225 tons *full load*)
Dimensions :	459 (*o.a.*) × 63 × 26½ (*max.*) feet
Machinery :	Diesel. B.H.P. : 6,000 = 15·3 kts.
Cargo capacity	5,000 tons

Notes.—No. AF 11. C2-Cargo (D) type.

3 "Eagle" Type.



GOLDEN EAGLE. 1953, *Skyfotos*

T-AF
50 BALD EAGLE
T-AF
51 BLUE JACKET
T-AF
52 GOLDEN EAGLE

Displacement :	7,430 tons (12,800 tons *full load*)
Dimensions :	459½ (*o.a.*) × 63 × 24 (*max.*) feet
Machinery :	Turbine. S.H.P. : 6,000 = 16·4 kts.

Note.—Military Sea Transportation Service Ships, designated USNS. M.C. Type C2-S-B1.

Cargo Ships.

3 "Victory" Class.

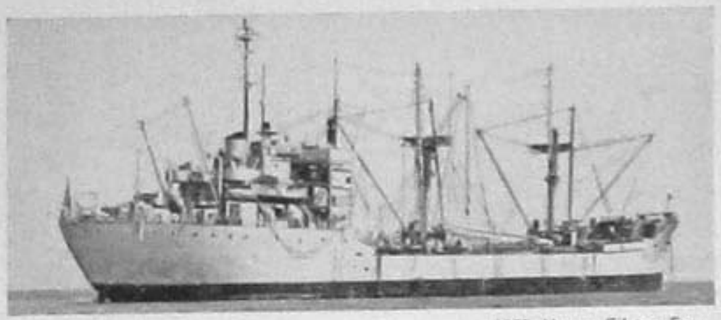
ALCOR. 1953, A. & J. Pavia.

ALCOR (ex-*Rockland Victory*) **ANTARES** (ex-*Nompa Victory*) **BETELGEUSE** (ex-*Columbia Victory*)

Displacement : 4,420 tons (*Navy light*), 15,580 tons *full load*) (Maritime Commission deadweight 10,850 tons)
Dimensions : 455½ (*o.a.*) × 62 × 28½ (*max.*) feet
Machinery : Geared turbines. S.H.P. : 8,500 = 16·5 kts.

Notes.—VC2-AP3 type. Laid down 1944. Reactivated for the Navy late 1951 from Maritime Administration Reserve Fleets. AK 259, 258, 260, respectively. *Altair* (AK 257) reclassified as AKS 32 in 1952.

5 "Alcona" Class.



BELTRAMI. 1952, Harvey Gilston, Esq.

ALCONA **BELTRAMI** **FARIBAULT** **GRAINGER** **SUSSEX**

Displacement : 2,460 tons (7,450 tons *full load*)
Dimensions : 320 (*w.l.*), 338½ × 50 × 21 (*max.*) feet
Guns : 1—3 inch d.p.
Machinery : Nordberg Diesel. B.H.P. : 1,750 = 11·5 kts.

Notes.—All launched 1944. AK 157, 162, 179, 184, 213. CI-M-AVI type.

6 "Alchiba" Class.

ALCHIBA (ex-*Charles E. Winsor*) **CENTAURUS** (ex-*Nathaniel Brown*)
ALGORAB (ex-*Elisha Whitney*) **CEPHEUS** (ex-*Richard W. Dixie*)
AQUARIUS (ex-*John D. Whidden*) **SERPENS** (ex-*William Lester*)

Dimensions : 259 (*o.a.*) × 42 × 19 feet
Machinery : Triple expansion. 1 shaft. I.H.P. : 1,300 = 11 kts.

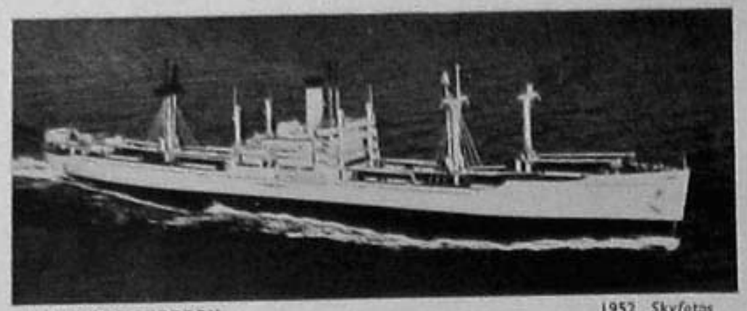
Notes.—AK 261 to 266, respectively. N3-S-A2 type. Non-commissioned vessels on Navy List. On loan to R.O.K. but carry U.S.N. names and designation.

6 "Alcyone" Class.

ALCYONE (ex-*FS 195*) **ALMAACK** (ex-*FS 283*) **PAMINA** (ex-*FS 528*)
ALHENA (ex-*FS 257*) **DEIMOS** (ex-*FS 390*) **RENATE** (ex-*FS 547*)

Notes.—Acquired from Army 1952. AK 37-42 respectively. On loan to R.O.K. but carry U.S.N. names and designation. Same type as "Camano" class.

M.S.T.S. Cargo Ships. (USNS)



KINGPORT VICTORY 1952 *Skyfotos*

4 Type VC2-S-AP3

T-AK **T-AK**
237 GREENVILLE VICTORY **239 KINGPORT VICTORY**
238 HAITI VICTORY **240 PRIVATE JOHN R. TOWLE**

Displacement : 6,770 tons (12,450 tons *full load*)
Dimensions : 455 (*o.a.*) × 62 × 24 (*max.*) feet
Machinery : Turbine. S.H.P. : 8,500 = 16·5 kts.

9 Type VC2-SA-P2

T-AK **T-AK**
241 PRIVATE FRANCIS X. McGRAW **251 LT. GEORGE W. G. BOYCE**
242 SERGEANT ANDREW MILLER **252 LT. ROBERT CRAIG**
243 SERGEANT ARCHER T. GAMMON **253 PVT. JOE E. MANN**
244 SERGEANT MORRIS E. CRAIN **254 SGT. TRUMAN KIMBRO**
256 DALTON VICTORY

Displacement : 6,700 tons (12,400 tons *full load*)
Dimensions : 455 × 62 × 24 feet
Machinery : Geared turbine. S.H.P. : 6,000 = 15·5 kts.

11 Type CI-M-AVI

T-AK **T-AK**
245 CAPTAIN ARLO L. OLSEN **180 FENTRESS** (ex-V 206)
246 COLONEL WILLIAM J. O'BRIEN **187 HENNEPIN** (ex-V 205)
247 PRIVATE JOHN F. THORSON **188 HERKIMER** (ex-V 203)
248 SERGEANT GEORGE PATERSON **198 MUSKINGUM** (ex-V 208)
249 SHORT SPLICE **200 PEMBINA** (ex-202)
250 PVT. FRANK J. PETRARCA

Displacement : 2,460 tons (7,450 tons *full load*)
Dimensions : 338½ × 50 × 21 feet
Machinery : Diesel. B.H.P. : 1,750 = 11·5 kts.

1 Type C4-S-B1 *1 Type C4-S-B5*

T-AK **T-AK**
255 PVT. LEONARD C. BROSTROM **267 MARINE FIDDLER**

Dimensions : 520 (*o.a.*) × 72 × 33 feet
Machinery : Geared Turbine. S.H.P. : 9,000 = 17 kts.

Notes.—All above *T-AK* are Military Sea Transportation Service Ships, designated USNS. *Marine Fiddler* built 1945, acquired from Maritime Administration Reserve Fleet 1952.

2 Type N3-S-A1

T-AK **T-AK**
87 SAGITTA **89 VELA**

Displacement : 5,202 tons *full load*
Dimensions : 269½ × 42½ × 20½ (*max.*) feet
Machinery : Diesel. 1 shaft. B.H.P. : 1,300 = 10.2 kts.

Note.—Reinstated on the list of naval vessels and assigned to the Military Sea Transportation Service. Removed from Maritime Administration Reserve Fleet where they have been laid up since release by the Navy after Second World War.

Light Cargo Ships.

8 "Camano" Class.

DEAL **HEWELL** **MARK** **SHARPS**
ESTERO **JEKYL** **RYVER** **TINGLES**

Notes.—Small cargo carriers, taken over from Army. AKL 2, 5, 6, 9, 10, 12, 13-14 (ex-AG 130-140, 143-145). FS type. *Camano, Deal, Estero* and *Hewell* in service *Elbe, Errol, Metomkin, Roque* and *Terry* transferred to Interior Department.

1 Coast Guard Type.

REDBUD

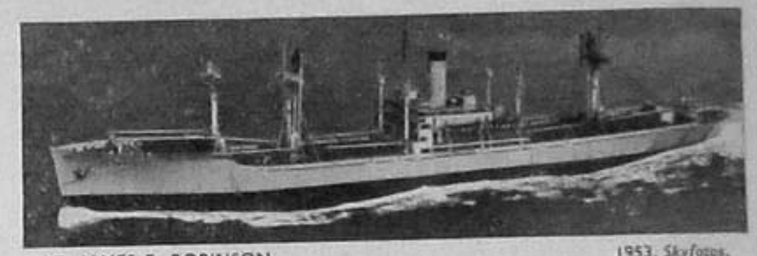
Notes.—AKL 398 (WAGL). U.S. Coast Guard Tender. Launched 11 Sep. 1943, of "Basswood" class (see later page) transferred to Navy for special transport and supply service in Greenland, and in Feb. 1952 to Military Sea Transportation Service as multi-purpose freighter combination icebreaker, light cargo vessel and radio communications ship.

M.S.T.S. Light Cargo Ships.

T-AKL	T-AKL	T-AKL	T-AKL
15 (ex-FS 230)	20 (ex-FS 193)	26 (ex-FS 368)	32 (ex-FS 548)
16 (ex-FS 233)	21 (ex-FS 259)	27 (ex-FS 369)	33 (ex-FS 238)
17 (ex-FS 289)	22 (ex-FS 256)	29 (ex-FS 371)	34 (ex-FS 343)
18 (ex-FS 174)	23 (ex-FS 288)	30 (ex-FS 400)	35 (ex-FS 383)
19 (ex-FS 175)	24 (ex-FS 309)	31 (ex-FS 407)	36 (ex-FS 398)

Notes.—Light Cargo Ships. All above are Military Sea Transportation Service Ships.

M.S.T.S. Aircraft Cargo and Ferry Ships.



LT. JAMES E. ROBINSON. 1953, *Skyfotos*.

3 Type VC2-S-AP3

T-AKV **T-AKV**
3 LIEUT. JAMES E. ROBINSON **4 PRIVATE JOSPEH F. MERRELL**
5 SERGEANT JACK J. PENDLETON

Displacement : 6,720 tons (12,450 tons *full load*)
Dimensions : 455 (*o.a.*) × 62 × 24 feet
Machinery : Turbine. S.H.P. : 8,500 = 17·7 kts.

2 Type Z-EC2-S-C5

T-AKV **T-AKV**
6 ALBERT M. BOE **7 CARDINAL O'CONNELL**

Displacement : 5,700 tons (12,000 tons *full load*)
Dimensions : 441½ × 57 × 25 feet
Machinery : Triple expansion. I.H.P. : 2,500 = 12·5 kts.

Notes.—Aircraft Ferry Ships. All Military Sea Transportation Service ships (USNS).

M.S.T.S. Coastal Transports.

4 Type CI-M-AVI

T-APC **T-APC**
116 SERGEANT JONAH E. KELLEY **117 SGT. GEORGE D. KEATHLEY**
118 SGT. JOSEPH E. MULLER
119 PVT. JOSE F. VALDEZ

Displacement : 2,460 tons (7,460 tons *full load*)
Dimensions : 338½ × 50 × 21 feet
Machinery : Diesel. B.H.P. : 1,750 = 11·5 kts.

Notes.—Coastal Transports. All Military Sea Transportation Service ships (USNS).

Oilers (AO).

6 New Construction.

AO 143	AO 145	AO 147
144	146	148

Displacement : 11,600 tons *light*

Notes.—Officially announced that Navy plans to construct six fleet oilers. First contract awarded to Bethlehem Steel Company, Quincy, Mass. Five others awarded later to New York Shipbuilding Corporation, Camden, New Jersey, with the Bethlehem company's design as prototype.

56 "T2-SE" Types.

COSSATOT. *Added 1949, U.S. Navy, Official.*

ANACOSTIA (ex-*Mission Alamo*, Sept, 24, 1944)
CACHE (ex-*Stillwater*), 1942
CAHABA (ex-*Lackawaxen*, ex-*Lackawapen*, 1943)
CANEY (ex-*Mission Los Angeles*, Oct. 7, 1944)
CEDAR CREEK
COHOCTON (June 18, 1943)
CHEPACHET (1943)
COSSATOT (1942)
COWANESQUE (1942)
ESCAMBIA (1942)
KENNEBAGO (1943)
MASCOMA (1943)
MILLICOMA (ex-*Conastega*, Jan. 21, 1943)
MUIR WOODS
OCKLAWAHA
PAMANSET (1943)
PECOS (ex-*Corsicana*, 1942)
PIONEER VALLEY
SAPPA CREEK
SARANAC
SAUGATUCK (ex-*Newton*, 1942)
SCHUYLKILL (ex-*Louisburg*, Feb. 16, 1943)
SEBEC (1943)
SHAWNEE TRAIL
SOUBARISSEN (ex-*Mission Santa Ana*, 1944)
SUAMICO (ex-*Harlem Heights*, 1941)
TALLULAH (ex-*Valley Forge*, 1944)
TAMALPAIS (ex-*Mission San Francisco*, 1944)
TOMAHAWK (1943)

Notes.—Nos. AO 94, 67, 82, 95, 138, 101, 78, 77, 79, 80, 81, 83, 73, 139, 84, 85, 65, 140, 141, 74, 75, 76, 87, 142, 93, 49, 50, 96, 88. *Cedar Creek* is equipped with an aluminium portable aircraft cargo deck. All except *Saranac* (USS) are assigned to Military Sea Transportation Service and designated USNS.

Oilers—*continued.*

"T2-SE" Types—*continued.*

MISSION SAN FERNANDO. 1953, *Skyfotos.*

MISSION BUENAVENTURA
MISSION CAPISTRANO
MISSION CARMEL
MISSION DE PALA
MISSION DOLORES
MISSION LORETO
MISSION LOS ANGELES
MISSION PURISIMA
MISSION SAN ANTIONIO
MISSION SAN CARLOS
MISSION SAN DIEGO
MISSION SAN FERNANDO
MISSION SAN FRANCISCO
MISSION SAN GABRIEL
MISSION SAN JOSE
MISSION SAN JUAN
MISSION SAN LUIS OBISPO
MISSION SAN LUIS REY
MISSION SAN MIGUEL
MISSION SAN RAFAEL
MISSION SANTA BARBARA
MISSION SANTA CLARA
MISSION SANTA CRUZ
MISSION SANTA YNEZ
MISSION SOLANO
MISSION SOLEDAD
MISSION SANTA ANA

Displacement : 5,730 tons (22,380 tons *full load*)
Dimensions : 503 (*w.l.*), 523½ (*o.a.*) × 68 × 30½ (*max.*) feet
Machinery : A 1 type: Turbo-electric. S.H.P. : 6,000 = 15·1 kts.
A 2 type: S.H.P. : 10,000 = 16·2 kts.
Boilers : 2 Babcock & Wilcox

Notes.—AO 111-137 respectively. T2-SE-A1 and T2-SE-A2 design. All above oilers are assigned to Military Sea Transportation Service and carry the prefix U.S.N.S. (U.S. Naval Ship). These ships are civilian manned, Navy-owned tankers, operated by commercial shipping firms under contract to the Navy. Oil capacity : 20,200 tons. *Mission San Diego* is equipped with an aluminium portable aircraft cargo deck.

7 "T2-A" Type.

KENNEBEC. *Added 1949, U.S. Navy, Official.*

KANKAKEE (ex-*Colina*, 1941)
KENNEBEC (ex-*Corsicana*, 1940)
MATTAPONI (ex-*Kalkay*, 1942)
MERRIMACK (ex-*Caddo*, 1940)
MONONGAHELA (ex-*Elkay*, 1941)
NECHES (ex-*Askal*, 1941)
TAPPAHANNOCK (ex-*Jorkay*, 1942)

Displacement : 21,580 tons (*full load*)
Dimensions : 523½ (*o.a.*) × 68 × 30½ (*max.*) feet
Machinery : Single turbine. S.H.P. : 12,000 = 16·7 kts.
Boilers : 2 Babcock & Wilcox

Notes.—Maritime Commission—Standard Oil. Nos. AO 39, 36, 41, 37, 42, 47, 43. All assigned MSTS designated USS.

2 "T3-S-A1" Type.

ENOREE (ex-*Sochem*, 1942) **NIOBRARA** (ex-*Citadel* Nov. 28 1942)

Displacement : 5,708 tons (22,003 tons *full load*)
Dimensions : 501½ (*o.a.*) × 68 × 30½ (*max.*) feet
Machinery : Turbines. 1 shaft. S.H.P. : 7,000 = 15·3 kts.

Notes.—AO 69, 72, respectively. Have 150 ton cranes. Carry 127,000 barrels of oil. *Enoree* assigned MSTS, designated USS.

5 "T3-S2-A3" Type.

WACCAMAW. 1953, *A. & J. Pavia.*

MISPILLION (1945) **PASSUMPSIC** (Oct. 31, 1945) **WACCAMAW** (1945)
NAVASOTA (Aug. 30, 1945) **PAWCATUCK** (Jan. 1945)

Displacement : 7,423 tons (25,440 tons *full load*)
Dimensions : 553 (*o.a.*) × 75 × 32½ (*max.*) feet
Machinery : Turbines. 2 shafts. S.H.P. : 13,500 = 18·3 kts.

Notes.—AO 105, 106, 107, 108, 109, respectively. Cargo : 142,500 barrels of oil. *Waccamaw* of this class was to have been converted to fleet tanker replenishment, (AOR) but this project has been deferred indefinitely.

24 "T3-S2-A1" Type.

SALAMONIE. 1952, *courtesy Godfrey H. Walker.*

ALLAGASH (1945)
ASHTABULA (1943)
AUCILLA (1943)
CACAPON (June 6, 1943)
CALIENTE (Aug. 26, 1943)
CALOOSAHATCHEE (1945)
CANISTEO (1945)
CHEMUNG (ex-*Esso Annapolis*, Sept. 9, 1939)
CHIKASKIA (Oct. 2, 1943)
CHIPOLA (1944)
CHUKAWAN (1945)
CIMARRON (Jan. 7, 1939)
ELOKOMIN (1945)
GUADALUPE (ex-*Esso Raleigh*, Jan. 26, 1940)
KASKASKIA (ex-*Esso Richmond*, 1939)
MANATEE (Feb. 19, 1944)
MARIAS (1943)
NANTAHALA (1943)
PLATTE (July 8, 1939)
SABINE (ex-*Esso Albany*, 1939)
SALAMONIE (ex-*Esso, Columbia*, 1939)
SEVERN (May 31, 1944)
TALUGA (1943)
TOLOVANA (1944)

Displacement : 7,256 tons (25,425 tons *full load*)
Dimensions : 525 (*w.l.*), 553 (*o.a.*) × 75 × 31½ feet
Guns : 1—5 inch, 4—3 inch (*Chemung, Guadalope, Kaskaskia, Sabine, Cimarron, Platte, Salamonie*, 4—5 inch) 8—40 mm. AA.
Machinery : Geared turbines. 2 shafts. S.H.P. : 13,500 = 18·8 kts.
Boilers : 4 Foster-Wheeler (except *Cimarron*, 4 Babcock & Wilcox)
Radius : Reported to be 18,000 miles
Cargo capacity : Exceeds 6,000,000 gallons
Complement : 64

Notes.—AO 22, 24-27, 30, 32, 51-58, 60-64, 97-100. *Chikaskia* and *Marias* assigned MSTS designated USS. War losses: *Mississinewa, Neosho.*

Fleet Replenishment Ship (AOR)

1 Ex-German Type.

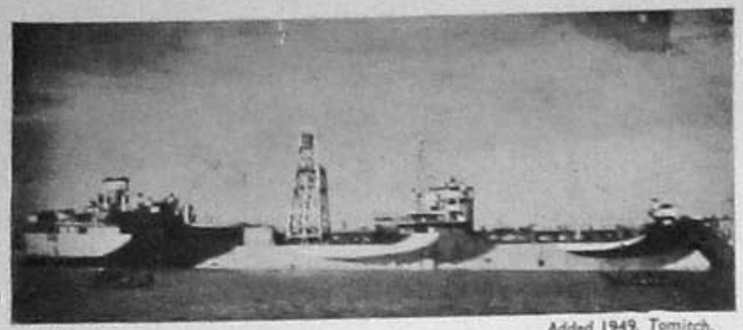
CONECUH (ex-*Dithmarchen*)

Launched :	1938
Displacement :	5,730 tons (*Navy light*) 15,000 tons *standard*, 20,500 tons *full load*
Dimensions :	584 (*o.a.*) × 72½ × 30½ feet
Machinery :	Geared Turbines. 2 shafts. S.H.P. : 22,000 = 21 kts.

Notes.—Redesignated AOR 110 in 1952. Formerly AO 110 (ex-IX 301). Former German U-Boat attendant oiler and supply ship of 10,847 tons gross register, taken over by U.S. Navy and commissioned 1946. Sister ship of H.M.S. *Sulaway*o. Can carry 10,000 tons of oil fuel, 400 tons lubricating oil. Commissioned March 1953 to " test a theory of one-stop replenishment. This ship, in addition to fuel, will carry stores and ammunition. The lesson to be learned from the ship could greatly affect future auxiliary construction and employment, it is officially stated.

Distilling Ships.

2 " Pasig " Class.



ABATAN. *Added 1949, Tomitch.*

PASIG. *Added 1949, U.S. Navy, Official.*

ABATAN (ex-*Mission San Lorenzo*) **PASIG** (ex-*Mission San Xavier*)

Displacement :	5,730 tons (22,390 tons *full load*)
Dimensions :	504 (*pp.*), 523½ (*o.a.*) × 68 × 30½ (*max.*) feet
Guns :	1—5 inch, 4—3 inch, 8—40 mm. AA.
Machinery :	Turbo-electric. S.H.P. : 10,000 = 16·2 kts.
Boilers :	2 Babcock & Wilcox
Capacity :	20,211 tons

Notes.—Both launched 1944. Nos. AW 4 (ex-OA 92) and T-AW 3 (ex-AO 91), respectively. Maritime Commission T2-SE-A2 design. Fitted with a derrick for the hoisting of LCUs and landing craft to be loaded on the deck, see photos. Cranes are of 150 tons capacity. *Pasig* is assigned to Military Sea Transportation Service. *Abatan* out of commission, in reserve.

Petrol Carriers (AOG).

24 " Patapsco " Class.

PECATONICA. 1953, *Skyfotos.*

AOG
6 **AGAWAM** (May 6, 1943)
49 **CHESTATEE** (USNS)
50 **CHEWAUCAN** (July 22, 1944)
7 **ELKHORN** (May 15, 1943)
8 **GENESEE** (Sep. 23, 1943)
2 **KERN** (ex-Y 483) USNS
9 **KISHWAUKEE** (July 24, 1943)
51 **MAQUOKETA** (Aug. 12, 1944) USNS
52 **MATTABESSET** (Nov. 11, 1944)
53 **NAMAKAGON** (Nov. 4, 1944)
54 **NATCHAUG** (Dec. 6, 1944)
10 **NEMASKET** (Oct. 20, 1943)

AOG
55 **NESPELEN** (April 10, 1945)
56 **NOXUBEE** (April 3, 1945)
1 **PATAPSCO** (Aug. 18, 1942)
57 **PETATONICA**
79 **PETALUMA** (ex-*Raccoon Bend*) USNS
58 **PINNEBOG** USNS
5 **SUSQUEHANNA** (ex-Y 485) USNS
3 **RIO GRANDE** (Sep. 23, 1942)
77 **RINCON** USNS
11 **TOMBIGEE** (Nov. 18, 1943)
59 **WACISSA** USNS
4 **WABASH** (ex-Y 484) USNS

Displacement :	1,850 tons (4,335 tons *full load*)
Dimensions :	292 (*w.l.*), 310½ (*o.a.*) × 48½ × 15½ (*max.*) feet
Guns :	4—3 inch d.p., 50 cal.
Machinery :	Diesel-electric, 2 shafts. B.H.P. : 3,300 = 14 kts.
Complement :	124

Notes.—Launch dates above. Navy designed. 18 built at Savage, Minnesota : 5 at Tacoma. Nine of these ships are assigned to Military Sea Transportation Service designated USNS. *Chenalis* exploded in dock at Tutuila, Samoa, Oct. 7, 1949.

1 " Ontonagon " Type.

AOG
36 **ONTONAGON** (ex-Y 130) USNS

Note.—T1-M-A2 type. Similar to Brazilian *Rijo* and *Raza*. Assigned to military Sea Transportation Service and designated U.S.N.S. (non-commissioned Naval vessel).

4 " Peconic " Class.

AOG
78 **NODAWAY** (ex-*Belridge*)
68 **PECONIC**

AOG
80 **PISCATAQUA** (ex-*Cisne*) USNS
76 **TONTI** USNS

Speed :	10 kts.
Capacity :	30,000 barrels
Merchant crew :	33

Notes.—T1-M-BT1 (*Peconic*) and T1-M-BT2 design. Assigned to MSTS and are non-commissioned naval vessels.

Icebreakers.

New Construction.

AGB 4

Laid down :	1 June 1953
Displacement :	8,600 tons
Dimensions :	310 × 74 × 20 feet
Aircraft :	2 Helicopters
Guns :	2—5 inch, 6—3 inch in enclosed mounts
Machinery :	Fairbanks Morse Diesel Engines and 2 Westinghouse electric propulsion motor units. H.P. : 21,000

Notes.—Designed and built by Ingall's Shipbuilding Corporation, Pascagoula, Mississippi. Ample stowage for fuel and provisions. Designed for breaking ice more than 20 feet thick, and her bow is to be heavily armoured to ram through obstructions instead of the slower method of driving the ship on top of the ice field and crushing it by sheer weight. Helicopters will be carried to spot the best course through the ice.

4 " Wind " Type.

EDISTO. *Added 1948, U.S. Navy, Official.*

ATKA (ex-*Southwind*) **EDISTO**
BURTON ISLAND **STATEN ISLAND** (ex-*Northwind*)

Displacement:	3,500 tons (6,500 tons *full load*)
Dimensions :	250 (*pp.*), 269 (*o.a.*) × 63½ × 25½ feet
Guns :	2—5 inch, 12—40 mm. AA.
Machinery :	Diesel, with electric drive. 3 shafts (1 forward, 2 aft). B.H.P. : 1,300 = 16 kts.

Notes.—Built by Western Pipe & Steel Co. Entirely welded construction, with double hull. Equipment includes helicopter aft. *Atka* served with Russian Navy. *Staten Island* (ex-*Northwind*) and *Westwind*, which had been on loan to Russia were recommissioned in U.S. Navy, 26 Jan. 1952. *Westwind*, AGB 6, was subsequently transferred to the U.S. Coast Guard.

No.	*Ex-No.*	*Name*	*Launched*	*Completed*
AGB 3	WAGB 280	*Atka*	7 Mar. 1943	15 July 194
AGB 1	AG 88	*Burton Island*	20 Apr. 1946	
AGB 2	AG 89	*Edisto*	1945	
AGB 5	WAGB 278	*Staten Island*		

Fleet X-Ray Ship.

AG
141 **WHIDBEY** (ex-*FS 395*)

Note.—Small cargo carrier, taken over from Army. Is now used as Fleet X-ray Examination Ship.

109R

Experimental Minefield Sweepers.

YAG	YAG
36 FLOYD W. SPENCER	38 EDWARD KAVANAUGH
37 JOHN L. SULLIVAN	

Dimensions : 422½ (*o.a.*) × 57 × 34½ (*max.*) feet
Machinery : Steam reciprocating. H.P.2,500 = 11 kts.

Notes.—Liberty ships, EC 2-S-C1 type, built 1943-44, acquired by Navy in 1952. To be used as guinea-pig ships in sweeping minefields. Remote engine room controls on bridge.

Netlayers (Boom Defence Vessels) (AN).

Note.—AN 93 was constructed under the Mutual Defense Assistance Programme for transfer to the Netherlands in 1953.

15 " Cohoes " Class.

WAXSAW. 1949, *U.S. Navy, Official.*

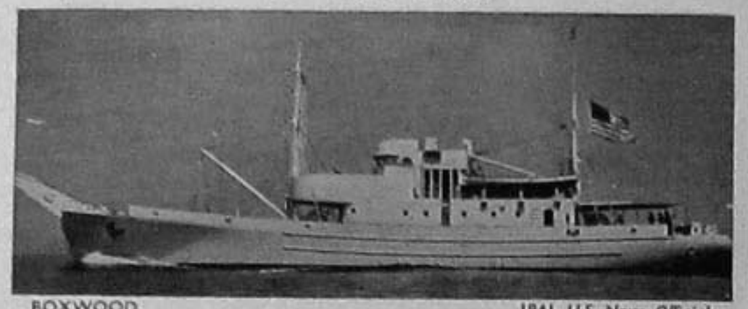
COHOES (Nov. 29, 1944)
ETLAH (Dec. 16, 1944)
MANAYUNK (March 30, 1945)
MARIETTA (April 27, 1945)
NAHANT (June, 1945)
NAUBUC (April 5, 1944)
ONEOTA (May 27, 1944)
PASSACONAWAY (June 30, 1944)
OASSAIC (June 29, 1944)
SHAKAMAXON (Sept. 9, 1944)
SUNCOCK (Feb. 16, 1945)
TONAWANDA (Nov. 14, 1944)
TUNXIS (Aug. 18, 1944)
WAXSAW (Sept. 15, 1944)
YAZOO (Oct. 18, 1944)

Displacement : 650 tons (785 tons *full load*)
Dimensions : 168½ × 33½ × 10½ feet
Guns : 1—3 inch
Machinery : Diesel-electric. B.H.P. : 1,200 = 12 kts.
Complement : 46

Notes.—AN 78-92. Built by Commercial Iron Works (78-83) ; Marine Iron & S.B. Co. (84-86) ; Leatham D. Smith S.B. Co. (87-89) ; and Zenith Dredge Co. (90-92).

Netlayers (Boom Defence Vessels)—*continued.*

25 " Tree " Class.



BOXWOOD. 1941, *U.S. Navy, Official.*

4 *American S.B. Co., Cleveland*
LOCUST (Feb. 1, 1941)
MANGO (Feb. 22, 1941)
MIMOSA (March 15, 1941)
MULBERRY (March 26, 1941)
(AN 22, 24, 26, 27)

6 *American S.B. Co., Lorain*
HAZEL (ex-*Poplar*, Feb. 14, 1941)
NUTMEG (ex-*Sycamore*, March 13, 1941)
PALM (Feb. 8, 1941)
REDWOOD (Feb. 22, 1942)
ROSEWOOD (April 1, 1941)
SANDALWOOD (March 16, 1941)
(AN 29, 33, 28, 30, 31, 32)

4 *Commercial Iron Works*
BUCKEYE (ex-*Cottonwood*, July 26, 1941)
CATALPA (Feb. 22, 1941)
CHESTNUT (March 15, 1941)
CINCHONA (July 2, 1941)
(AN 13, 10-12)

3 *General Engrg. & D.D. Co*
BUCKTHORN (ex-*Dogwood*, March 27, 1941)
EBONY (June 3, 1941)
EUCALYPTUS (July 3, 1941)
(AN 14-16)

2 *John H. Mathis Co.*
TEABERRY (May 24, 1941)
TEAK (July 7, 1941)
(AN 34, 35)

4 *Lake Washington Shipyards*
ALOE (Jan. 11, 1941)
ASH (Feb. 15, 1941)
BOXWOOD (ex-*Birch*, March 8, 1941)
BUTTERNUT (May 10, 1941)
(AN 6-9)

2 *Marietta Mfg. Co.*
ELDER (ex-*Juniper*, June 19, 1941)
HOLLY (April 17, 1941)
(AN 20, 19)

Displacement : 560 tons (580 tons *full load*)
Dimensions : 146 (*w.l.*), 163 (*o.a.*) × 30½ × 10½ (*mean*), 11¾ (*max.*) feet
Guns : 1—3 inch AA., some M.G.
Machinery : Diesel-electric. B.H.P. : 800 = 13 kts.
Complement : 48

Notes.—Former YN 1-30. Steel hulls. Three of this class were transferred to the French Navy in 1944, and one to Turkey in 1947.

Depot Ships (APB).

16 " Ex-LST " Type.

APB
49 ACCOMAC (ex-*LST 710*)
35 BENEWAH (ex-*APL 35*)
45 BLACKFORD (ex-*AKS 16*, ex-*LST 1111*)
50 CAMERON (ex-*LST 928*)
36 COLLETON (ex-*APL 36*)
46 DORCHESTER (ex-*AKS 17*, ex-*ST 1112*)
37 ECHOLS (ex-*APL 37*)
47 KINGMAN (ex-*AKS 18*, ex-*LST 1113*)

APB
38 MARLBORO (ex-*APL 38*)
39 MERCER (ex-*APL 39*)
40 NUECES (ex-*APL 40*)
44 PRESQUE ISLE (ex-*LST 678*)
48 VANDERBURGH (ex-*AKS 19*, ex-*LST 1114*)
41 WYTHE (ex-*LST 575*)
42 YAVAPAI (ex-*LST 676*)
43 YOLO (ex-*LST 677*)

Displacement : 2,189 tons (*light*)
Dimensions : 328 (*o.a.*) × 50 (*extreme*) × 11 feet
Guns : 40 mm. (no. of guns varies)
Speed : 12 kts. (*APB* 41-50), 10 kts. (*APB* 35-40)

Notes.—Officially rated as Barrack ships, self-propelled (APB). All ex-*LST* type ships of the same basic characteristics.

APB
51 DUPAGE (ex-*S.S. John W. Weeks*)
Notes.—Converted liberty-type merchant vessel. EC-2-S-C1 type.

Submarine Rescue Vessels (ASR).

PENGUIN (ex-*Chetco*, July 20, 1943) **SKYLARK** (ex-*Yustaga*, 1946)

Displacement : 1,235 tons (1,675 tons *full load*)
Dimensions : 193 (*w.l.*), 205 (*o.a.*) × 38½ × 12 (*mean*), 15½ (*max.*) feet
Guns : 1—3 inch, 2—40 mm. AA.
Machinery : Diesel-electric. B.H.P. : 3,000 = 16·5 kts.
Complement : 85

Notes.—Former fleet type tugs, adapted for present service in 1947. Built by Charleston S.B. & D.D. Co. ASR 12, 20. *Bluebird*, ASR 19, transferred to Turkey, May, 1950.

FLORIKAN. 1943, *U.S. Navy, Offic al.*

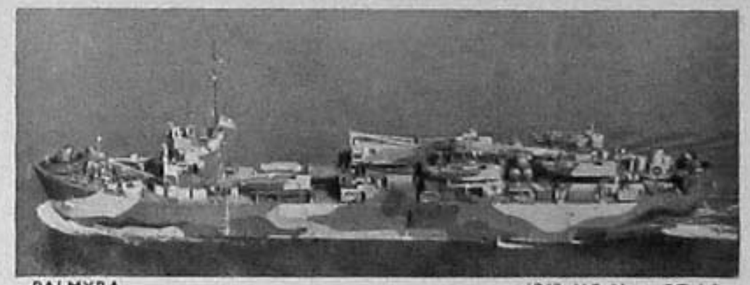
CHANTICLEER (June, 1942)
COUCAL (June, 1942)
FLORIKAN (June 14, 1942)
GREENLET (July 12, 1942)
KITTIWAKE (July 10, 1945)
PETREL (1945)
SUNBIRD (1945)
TRINGA (1945)

Displacement : 1,653 tons (2,141 tons *full load*)
Dimensions : 251½ × 42 × 14½ feet
Guns : 2—3 inch, 2—40 mm. AA.
Machinery : Diesel-electric. B.H.P. : 3,000 = 14·9 kts.
Complement : 85

Notes.—ASR 7-10, built by Moore D.D. Co. ; 13-16, built by Savannah Machine & Foundry Co. Large tug type.

General Notes.—All above vessels are equipped with powerful pumps, heavy air compressors and special submarine rescue chambers.

Salvage Tenders (ARST).



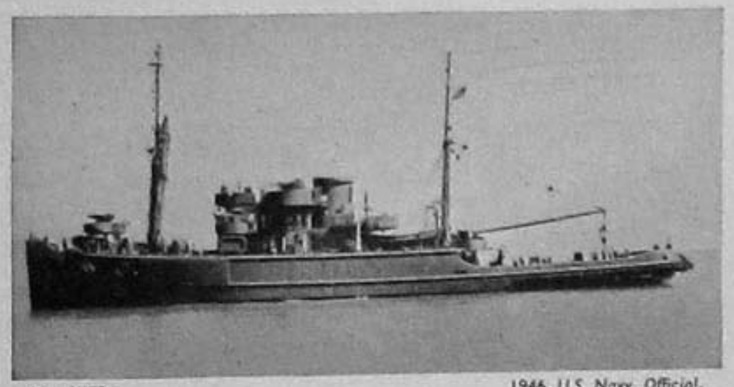
PALMYRA. 1949, *U.S. Navy, Official.*

LAYSAN ISLAND (ex-*LST 1098*) **PALMYRA** (ex-*LST 1100*)

Displacement : 1,653 tons (4,080 tons *full load*)
Dimensions : 328 × 50 × 11 feet (14½ feet (*max.*)
Machinery : Diesel. 2 shafts. B.H.P. : 1,800 = 11 kts.

Notes.—ARST 1, 3. Tenders. Out of commission, in reserve.

Salvage Vessels (ARS).



BOLSTER. 1946, *U.S. Navy, Official.*

BOLSTER (Dec. 23, 1944)
CHAIN (June 3, 1943)
CLAMP (ex-*Arlantic Salvor*, Oct. 24, 1942)
CONSERVER (Jan. 27, 1945)
CURRENT (Sept. 25, 1943)
DELIVER (Sept. 25, 1943)
ESCAPE (Nov. 22, 1942)
GEAR (ex-*Pacific Salvor*, Oct. 24, 1942)
GRAPPLE (Dec. 31, 1942)
GRASP (July 31, 1943)
HOIST (March 31, 1945)
OPPORTUNE (March 31, 1945)
PRESERVER (April 1, 1943)
RECLAIMER
RECOVERY
SAFEGUARD (Nov. 20, 1943)
SNATCH (April 8, 1944)

Displacement :	1,360 tons
Dimensions :	207 (*w.l.*), 213½ (*o.a.*) × 39 × 13 feet
Guns :	4—40 mm. AA.
Machinery :	Diesel-electric. 2 shafts. B.H.P. : 3,000 = 14 kts.
Complements :	85

Note.—ARS 38, 20, 33, 39, 22, 23, 6, 34, 7, 24, 40, 41, 8, 42, 43, 25, 27. Built by Basalt Rock Co. *Cable*, ARS 19, and *Curb*, ARS 21, are on loan to private operators.

VIKING (ex-*Guide*, ex-*Flamingo*, 1918)

Displacement :	1,060 tons (1,400 tons *full load*)
Dimensions :	187½ (*o.a.*) × 36½ × 10½ feet
Guns :	2—3 inch, 50 cal. AA.
Machinery :	Triple expansion. I.H.P. ; 1,400 = 14 kts.
Boilers :	2 Babcock & Wilcox
Oil fuel :	275 tons
Complement :	79

Notes.—No. ARS 1 (ex-*AM* 32). Former "Bird" class minesweeper. Although Navy owned is operated by a commercial salvage company under contract to the Navy.

Salvage Lifting Vessels (ARSD).

GYPSY (ex-*LSM* 549)
MENDER (ex-*LSM* 550)
SALVAGER (ex-*LSM* 551)
WINDLASS (ex-*LSM* 552)

Displacement :	740 tons (1,095 tons *full load*)
Dimensions :	224½ × 34 × 7 feet
Machinery :	Diesel. 2 shafts. B.H.P. : 2,800 = 13 kts.

Notes.—ARSD 1-4. Used as diving tenders.

Armed Merchant Ships.

BUCKEYE MARINER **GOLDEN MARINER** **EVERGREEN MARINER**

Measurement :	9,200 tons gross, 12,900 to 13,400 tons deadweight
Dimensions :	528½ (*pp.*), 563 (*o.a.*) × 76 × 44½ feet
Machinery :	Turbine. S.H.P. : 19,250 = 22 kts.

Notes.—A fleet of 35 fast new cargo vessels is under construction. C4-S-1A type. They are to be equipped in wartime with guns, torpedoes, and helicopters to enable them to sail unescorted instead of depending on convoy protection. Last five taken over by Navy and will be completed as Navy APAs or AKAs. To be built at Bethlehem, San. Francisco.

Fleet Tugs.

MOLALA (later no funnel type). *Added* 1950, *U.S. Navy, Official.*

SIOUX (earlier funnel type). *Added* 1950, *U.S. Navy, Official.*

ABNAKI (April 22, 1943)
ACHOMAWI (Sept. 10, 1944)
ALSEA (May 22, 1943)
APACHE (May 8, 1942)
ARAPAHO (ex-*Catawba*, June 22, 1942)
ARIKARA (June 22, 1943)
ATAKAPA (July 11, 1944)
AVOYEL (Aug. 9, 1944)
BANNOCK (Jan. 17, 1943)
CAHUILLA (Nov. 2, 1944)
CARIB (Feb. 7, 1943)
CHAWASHA (Sept. 15, 1944)
CHICKASAW (July 23, 1942)
CHILULA (Dec. 1, 1944)
CHIMARIKO (Dec. 30, 1944)
CHIPPEWA (July 25, 1942)
CHOCTAW (Oct. 18, 1942)
CHOWANOC (Aug. 20, 1943)
COCOPA (Oct. 5, 1943)
CREE (Aug. 17, 1942)
CUSABO (Feb. 26, 1945)
HIDATSA (Dec. 29, 1943)
HITCHITI (Jan. 29, 1944)
HOPI (Sept. 7, 1942)
JICARILLA (Feb. 25, 1944)
KIOWA (Nov. 5, 1942)
LIPAN (Sept. 17, 1942)
LUISENO (March 17, 1945)
METACO (Oct. 14, 1942)
MENOMINEE (Feb. 14, 1942)
MOCTOBI (March 25, 1944)
MOLALA (Dec. 23, 1942)
MORENO (July 9, 1942)
MOSOSPELEA
MUNSEE (Jan. 21, 1943)
NARRAGANSETT (Aug. 8, 1942)
NIPMUC (April 12, 1945)
PAIUTE
PAKANA (March 3, 1943)
PAPAGO
PAWNEE (March 31, 1942)
PINTO (Jan. 5, 1943)
POTAWATOMI (April 3, 1943)
QUAPAW (May 15, 1943)

Fleet Tugs—*continued.*

SALINAN
SENECA (Feb. 2, 1943)
SERRANO (July 24, 1943)
SHAKORI
SIOUX (May 27, 1942)
TAKELMA (Sept. 18, 1943)
TAWAKONI (Oct. 28, 1943)
TAWASA (Feb. 22, 1943)
TEKESTA (March 20, 1943)
TENINO (Jan. 10, 1944)
TOLOWA (May 17, 1944)
UTE (June 24, 1942)
UTINA
WENATCHEE (Sept. 7, 1944)
YUMA (July 17, 1943)

Displacement :	1,235 tons (1,675 tons *full load*)
Dimensions :	195 (*w.l.*), 205 (*o.a.*) × 38½ × 12 (*mean*), 15½ (*max.*) feet
Guns :	1—3 inch, 4—40 mm. AA., 2—20 mm. AA. ; but some have had armament reduced.
Machinery :	4 sets Diesels with electric drive. B.H.P. : 3,000 = 16·5 kts.
Complement :	85

Notes.—Fitted with powerful pumps and other salvage equipment. (Some are fitted as wireless controlled target ships, including *Chickasaw*.) ATF 67-76, 81-88, 90-94, 96-98, 100-110, 112-116, 118, 148-163. *Wateree* (ATF 117) lost. *Sarsi* (ATF 111) sank after striking a mine off Korea, 27 Aug. 1952.

Auxiliary Ocean Tugs.

ACCOKEEK (ATA 181)
ALGORMA (ATA 212)
ALLEGHENY (ATA 179)
BAGAADUCE (ATA 194)
CAHOKIA (ATA 186)
CATAWBA (ATA 210)
CHALLENGE (ATA 201
GERONIMO (ATA 207)
IUKA (ATA 123)
KALMIA (ATA 184)
KEOSANQUA (ATA 198)
KEYWADIN (ATA 213)
KOKA (ATA 185)
MAHOPAC (ATA 196)
NAVAJO (ATA 211)
NAVIGATOR (ATA 203)
NOTTOWAY (ATA 183)
PENOBSCOT (ATA 188)
PINOLA (ATA 206)
REINDEER (ATA 189)
SAGAMORE (ATA 208)
SALISH (ATA 187)
SAMOSET (ATA 190)
SCIOTA (ATA 205)
SONOMA (ATA 175)
SOTOYOMA (ATA 121)
STALLION (ATA 193)
SUNNADIN (ATA 197)
TATNUCK (ATA 195)
TILLAMOOK (ATA 192)
TONKAWA (ATA 176)
TUNICA (ATA 178)
UMPQUA (ATA 209)
UNADILIA (ATA 182)
UNDAUNTED (ATA 199)
WAMPANOAG (ATA 202)
WANKDANK (ATA 204)
WATEREE (ATA 174)

Displacement :	534 tons (835 tons *full load*)
Dimensions :	134½ (*w.l.*), 143 × 33½ × 13 feet
Guns :	1—3 inch d.p.
Machinery :	Diesel-electric. B.H.P. : 1,500 = 13 kts.

Note.—Ex-ATRs (Ocean Rescue Tugs) which were reclassified. All launched 1943-1945.

M.S.T.S. Auxiliary Ocean Tugs.

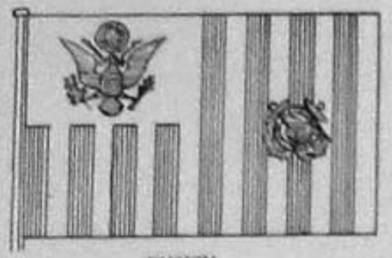
T-ATA
240 (U.S.N.S.) ex-U.S. Army *LT* 455
241 (U.S.N.S.) ex-U.S. Army *LT* 60
T-ATA
242 (U.S.N.S.) ex. U.S. Army *LT* 132
243 (U.S.S.) ex-Army *LT* 646
244 (U.S.N.S.) ex-U.S. Army *LT* 156

Displacement :	534 tons (835 tons *full load*)
Dimensions :	143 (*o.a.*) × 33½ × 13½ (*max.*) feet
Machinery :	Diesel-electric. B.H.P. = 1,500 = 13 kts.

Notes.—Military Sea Transportation Service Ships. T-ATA 239 (ex-*LT* 532) was returned to U.S. Army.

Flags.

STANDARD


ENSIGN

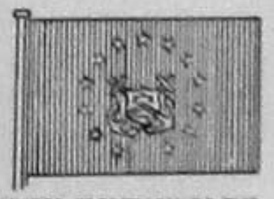
Colour Key

Red

White

Blue

SECRETARY OF THE TREASURY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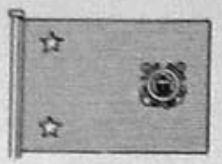
ASSISTANT SECRETARY OF THE TREASURY

ADMIRAL

VICE-ADMIRAL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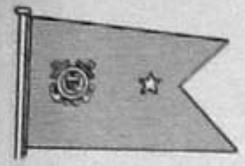
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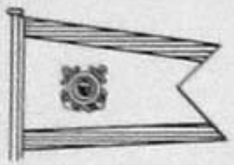
SENIOR OFFICER PRESENT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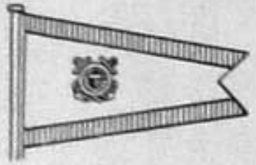
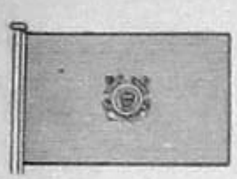
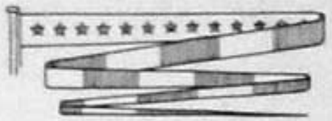

URGEE COMMAND PENDANT


AUXILIARY

ANCHORAGE


PENDANT

Administration.

Commandant, U.S.C.G. : Vice-Admiral Merlin O'Neill.
Assistant Commandant : Rear-Admiral Alfred C. Richmond.
Engineer-in-Chief : Rear-Admiral Kenneth K. Cowart.
Superintendent of U.S.C.G. Academy : Rear-Admiral A. G. Hall.

Personnel.

35,000 officers and men.

I.—ESTABLISHMENT.

The United States Coast Guard was established by the Act of Congress approved January 28, 1915, which consolidated the Revenue Cutter Service founded in 1790 and the Life Saving Service founded in 1878. The act of establishment as amended provides (Title 14, U.S. Code, Part I, Sect. 1) "The Coast Guard as established January 28, 1915, shall be a military service and a branch of the armed forces of the United States at all times. The Coast Guard shall be a service in the Treasury Department, except when operating as a service in the Navy". The Lighthouse Service, founded in 1789, was transferred to the Coast Guard on July 1, 1939, as a result of the President's Reorganization Plan No. II. On February 28, 1942, the President transferred temporarily from the Secretary of Commerce to the Commandant of the Coast Guard certain safety-at-sea functions of the former Bureau of Marine Inspection and Navigation. The President's Reorganization Plan III, which became effective July 16, 1946, made this temporary transfer of functions permanent.

II.—DUTIES.

1. The peacetime duties of the Coast Guard have as their principal objective safety and security at sea through enforcement of the navigation laws, saving life and assistance to vessels in distress, maintenance of aids to navigation, and marine inspection.

2. Law enforcement duties, performed for all departments of the government, include those relating to customs, movements and anchorage of vessels, immigration, quarantine, neutrality, navigation and other laws governing merchant vessels and motor boats, safety of life on navigable waters during regattas, oil pollution, sponge fisheries, protection of game, seal and fisheries in Alaska, protection of bird reservations established by Executive Order and suppression of mutinies.

3. Life saving and assistance duties include maintenance of coastal stations and communication lines on the continental coasts of the United States, conduct of the International Ice Patrol, icebreaking, weather patrol, derelict destruction, winter cruising on the Atlantic coast, extension of medical aid to fishing vessels, Bering Sea Patrol and flood relief work. In its humanitarian duties the Coast Guard renders aid and assistance to vessels and aircraft in distress irrespective of nationality and extends its protection, if needed, to all shipping within the scope of its operations.

4. The Coast Guard establishes and maintains navigation aids, consisting of lighthouses, lightships, radio beacons, buoys, radar beacons, loran, and unlighted beacons on the sea and lake coasts of the United States, on the rivers of the United States as authorized by law, and on the coasts of all other territory under United States jurisdiction, with the exception of Panama.

5. In time of national emergency or when the President so directs the Coast Guard operates as a part of the Navy. A military organization was adopted at the time the service was established in 1790, before the establishment of the Navy Department. This organization has been continued since that date for the purpose of maintaining the general efficiency of the operation of the service in its law enforcement duties in time of peace. The executive direction under which the Coast Guard operates as a part of the Navy in time of war is similar in effect to a measure of mobilization. In this respect the Coast Guard is a potential reserve force for the Navy. No personnel are normally assigned or equipped as land troops. Vessels are prepared in emergencies to equip landing forces with small arms and machine guns; stations are similarly prepared to undertake emergency police duties in a more limited sense, because of the smaller units involved, but in both cases these duties would be incidental to the primary purpose of the service, the enforcement of law on the high seas and navigable waters of the United States and the saving of life and property. Recently reactivated, in the present emergency, the Coast Guard Reserve has been assigned to man a number of port security units throughout the United States.

III.—ORGANIZATION.

For the administration and operation of the Coast Guard, the United States, including its territories and insular possessions and the waters adjacent thereto are divided into 12 districts, each under the command of a district commander operating directly under the Commandant of the Coast Guard.

IV.—PERSONNEL.

Uniforms of officers and men are similar to those of U.S. Navy, but commissioned officers wear a gold shield on the sleeve instead of a star, and cap device is a gold spread-eagle, the talons grasping a horizontal foul anchor. A silver shield is mounted on the eagle's breast. Enlisted men and women of the Coast Guard wear a shield on the lower right sleeve.

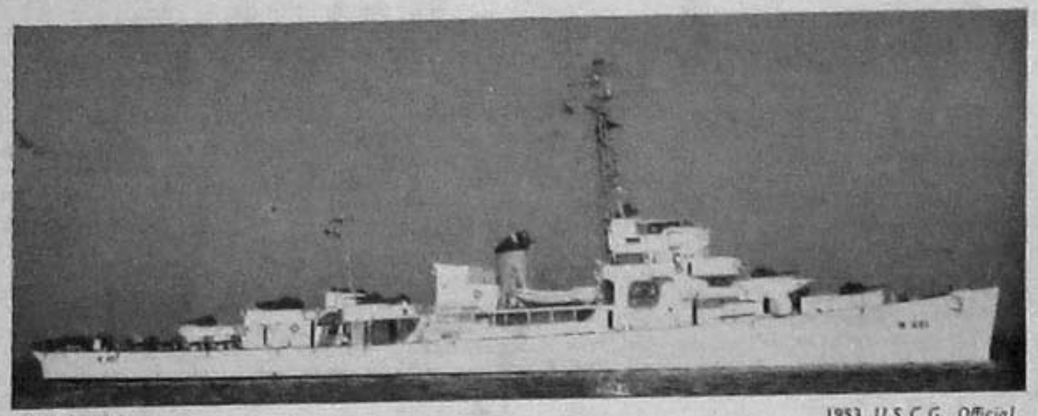
V.—VESSELS.

Coast Guard vessels are designated Coast Guard cutters. Those of 110 feet tug type and below are detailed to the larger maritime ports to enforce Customs and Navigation laws and the regulation of the anchorage and movement of vessels.

VI.—AVIATION.

Air Stations in commission number nine. Location: Salem, Mass.; Brooklyn, N.Y.; Miami, Fla.; St. Petersburg, Fla.; San Diego, California; Port Angeles, Washington; Elizabeth City, N.C.; South San Francisco, California; Traverse City, Michigan.

12 " Edsall " Class (WDE).



CHAMBERS. 1953, *U.S.C.G., Official*

WDE	WDE	WDE
491 CHAMBERS (ex-*DE 391*)	**434 FORSTER** (ex-*DE 334*)	**422 NEWELL** (ex-*DE 322*)
489 DURANT (ex-*DE 389*)	**431 KOINER** (ex-*DE 331*)	**482 RAMSDEN** (ex-*DE 382*)
424 FALGOUT (ex-*DE 324*)	**488 LANSING** (ex-*DE 388*)	**485 RICHEY** (ex-*DE 385*)
428 FINCH (ex-*DE 328*)	**425 LOWE** (ex-*DE 325*)	**487 VANCE** (ex-*DE 387*

Displacement :	1,200 tons *standard* (1,850 tons *full load*)
Dimensions :	306 (*o.a.*) × 36½ × 11 (*max.*) feet
Guns :	3—3 inch, 50 cal. ; 8—40 mm. AA., 4—20 mm. AA. and DC.
Machinery :	Fairbanks-Morse Diesels. 2 shafts. B.H.P. : 6,000 = 21 kts.

Notes.—Rated as Escort Vessels. Former U.S.N. " Edsall " class with torpedo tubes removed. 422-434 built by Consolidated Steel Corpn. Orange ; 482-491 by Brown S.B. Co., Houston, Texas. Launched : *Finch*, Nov. 1943 ; *Forster*, 13 Nov. 1943 ; *Lansing* 3 Aug. 1943; *Richey*, 20 June 1943. All on loan from U.S. Navy.

13 " Owasco " Class (WPG).

IROQUOIS. 1952, *U.S.C.G., Official.*

" Owasco " Class—*continued.*

WPG	WPG	WPG
68 ANDROSCOGGIN	**66 KLAMATH**	**70 PONTCHARTRAIN** (ex-*Okeechobee*)
41 CHATAUQUA	**69 MENDOTA** (Feb. 29, 1944)	**42 SEBAGO** (ex-*Wachusett*)
64 ESCANABA (ex-*Otsego*, Mar. 25, 1945)	**67 MINNETONKA** (ex-*Sunapee*)	**44 WACHUSETT** (ex-*Huron*, Nov. 5,1944
43 IROQUOIS	**39 OWASCO**	**40 WINNEBAGO**
		65 WINONA

Displacement:	1,563 tons (1,913 tons *full load*)
Dimensions:	254 (*o.a.*) × 43 × 15 (*mean*), 16½ (*max.*) feet
Guns:	1—5 inch, 38 cal., 4—40 mm., AA., 4—20 mm. AA.
A/S Weapons	1 Hedgehog, K-guns and racks for depth charges.
Machinery:	Geared turbines with electric drive by Westinghouse Co. S.H.P. : 4,000 = 18 kts.

Notes.—Rated as 255 ft. Cutters. Anti-submarine weapons now re-installed. All built by Western Pipe & Steel Co., except *Mendota* and *Pontchartrain*, by the Coast Guard Shipyard. Cost over $2,300,000 each without armament. All named after Indian tribes. *Owasco* decommissioned.

18 Navy Seaplane Tender Type (WAVP).

HALF MOON. 1952, *U.S.C.G., Official.*

WAVP	WAVP
370 CASCO (ex-*AVP 12*)	**379 UNIMAK** (ex-*AVP 31*)
371 MACKINAC (ex-*AVP 13*)	**380 YAKUTAT** (ex-*AVP 32*)
372 HUMBOLDT (ex-*AVP 21*)	**381 BARATARIA** (ex-*AVP 33*)
373 MATAGORDA (ex-*AVP 22*)	**382 BERING STRAIT** (ex-*AVP 34*)
374 ABSECON (ex-*AVP 23*)	**383 CASTLE ROCK** (ex-*AVP 35*)
375 CHINCOTEAGUE (ex-*AVP 24*)	**384 COOK INLET** (ex-*AVP 36*)
376 COOS BAY (ex-*AVP 25*)	**385 DEXTER** (ex-*Biscayne*, ex-*AGC 18*, ex-*AVP 11*)
377 ROCKAWAY (ex-*AVP 29*)	**386 McCULLOCH**(ex-*Wachapreague*, ex-*AGP 8*, ex-*AVP56*)
378 HALF MOON (ex-*AVP 26*)	**387 GRESHAM** (ex-*Willoughby*, ex-*AGP 9*, ex-*AVP 57*)

Displacement:	1,766 tons (2,800 tons *full load*)
Dimensions:	310½ (*o.a.*) × 41 × 13½ (*max.*) feet
Guns:	1—5 inch, 38 cal., 2 or 4—40 mm. AA., 4—20 mm. AA.
Machinery:	Diesel. B.H.P.: 6,080 = 18·2 kts.

Notes.—Rated as 311 ft. Cutters. All except last three AVPs on loan from U.S. Navy. Employed as weather ships. Dexter decommissioned.

Name	*Builders*	*Launched*	*Completed*
Absecon	Lake Washington Shipyard	8 Mar., 1942	1942
Barataria	Lake Washington Shipyard	2 Oct., 1943	1944
Bering Strait	Lake Washington Shipyard	15 Jan., 1944	1944
Casco	Puget Sound	15 Nov., 1941	1942
Castle Rock	Lake Washington Shipyard	11 Mar., 1944	1944
Chincoteague	Lake Washington Shipyard	15 Apr., 1942	1942
Cook Inlet	Lake Washington Shipyard	13 May, 1944	1944
Coos Bay	Lake Washington Shipyard	15 May, 1942	1942
Dexter			1941
Gresham		21 Aug. 1942	1944
Half Moon	Lake Washington Shipyard	12 July, 1942	1942
Humboldt	Boston	17 Mar., 1941	1941
McCullock		10 July, 1942	1944
Mackinac	Puget Sound	15 Nov., 1941	1942
Matagorda	Boston	18 Mar., 1941	1941
Rockaway	Associated Shipbuilders	14 Feb., 1942	1942
Unimak	Associated Shipbuilders	27 May, 1942	1942
Yakutat	Associated Shipbuilders	2 Jul., 1942	1942

Radioships.

"Courier" Type (WAGR).

COURIER. 1952, *U.S.C.G., Official.*

WAGR
410 COURIER

Displacement:	5,800 tons
Dimensions:	338½ × 50½ × 21 (*max.*) feet
Machinery:	Diesel, direct drive. B.H.P.: 1,600 = 10 kts.

Notes.—*Courier* (ex-*Coastal Messenger*), C1-M-AV1 type, is the first of six WAGR (radio ships) to be manned by the Coast Guard for the State Department as relay stations for the Voice of America. She was built in 1945 as the U.S.S. *Doddridge* (AK 176) but was not used by the Navy. Of the same characteristics as the *Kukui*, the *Courier* is of 5,926 tons deadweight with a cruising range of approximately 14,500 miles. Length: 338 feet. Launched: 1945. For duty in foreign waters. Virtually a seagoing radio broadcasting station. Transmitting equipment is most powerful of its kind ever installed in any vessel. Commissioned 15 Feb. 1952 (Ex-Maritime Commission).

Ice Patrol Tender.

(Miscellaneous Auxiliary, WAG).

STORIS. 1952, *U.S.C.G., Official.*

STORIS (ex-*Eskimo*)

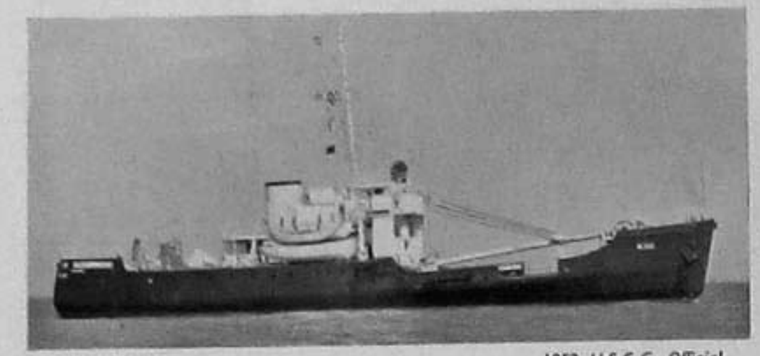
Builders: Toledo S.B. Co.
Launched: 1942.

Displacement:	1,715 tons
Dimensions:	230 (*o.a.*) × 43 × 14 (*mean*), 15 (*max.*) feet
Machinery:	Diesel, with electric drive. B.H.P.: 1,800 = 13·5 kts.

Notes.—WAG 38. Strengthened for ice navigation, and employed on Alaskan service. Search, rescue and law enforcement are primary duties. Makes supply runs to isolated Coast-guard installations within her patrol area.

Buoy Tenders (WAGL).

38 "Cactus" and "Iris" Classes.



BLACKHAW. 1952, *U.S.C.G., Official.*

20 *Marine Iron & S.B. Co., Duluth*
BASSWOOD
BLACKHAW (June 18, 1943)
BLACKTHORN (July 20, 1943)
BUTTONWOOD (Nov. 28, 1942)
CACTUS (Nov. 25, 1941)
CITRUS (Aug. 15, 1942)
CLOVER (1942)
CONIFER (Oct. 3, 1942)
COWSLIP (1942)
EVERGREEN
HORNBEAM (Aug. 15, 1943)
MESQUITE (Nov. 14, 1942)
PAPAW
PLANETREE
SASSAFRAS (1943)
SEDGE (1943)
SPAR (Nov. 2, 1943)
SUNDEW (Feb. 8, 1944)
SWEETBRIAR (Dec. 30, 1943)
SWEETGUM (1943)

17 *Zenith Dredge Co., Duluth*
ACACIA (ex-*Thistle*, April 7, 1944)
BALSAM (1942)
BITTERSWEET (1943)
BRAMBLE (1943)
FIREBUSH (1943)
GENTIAN (1942)
IRIS (March 10, 1944)
LAUREL (Aug. 4, 1942)
MADRONA (Nov. 11, 1942)
MALLOW (1943)
MARIPOSA (Jan. 7, 1944)
SAGEBRUSH (Sept. 30, 1943)
SALVIA (Sept. 15, 1943)
SORREL (Sept. 28, 1942)
TUPELO (Nov. 28, 1942)
WOODBINE
WOODRUSH (1944)

1 *Coast Guard Shipyard, Curtis Bay*
IRONWOOD (March, 1943)

Displacement:	935 tons
Dimensions:	180 (*o.a.*) × 37 × 12 (*mean*), 14 (*max.*) feet
Machinery:	Diesel, with electric drive. B.H.P.: 1,200 = 14 kts. (except *Citrus, Clover, Conifer, Cowslip, Evergreen, Tupelo, Woodbine*, which are B.H.P.: 1,000 = 13 kts.)

Notes.—Builders and launch dates above. *Redbud* lent to Military Sea Transportation Service as AKL (Cargo Ship Light).

WHITE ALDER **WHITE HOLLY** **WHITE SAGE**
WHITE BUSH **WHITE LUPINE** **WHITE SUMAC**
WHITE HEATH **WHITE PINE**

Displacement:	435 tons
Dimensions:	133 (*o.a.*) × 30 × 10 (*max.*) feet
Machinery:	Diesel-electric. B.H.P.: 300 = 10 kts.

Note.—All launched 1943.

ASTER **THISTLE**

Displacement:	500 tons (*full load*)
Dimensions:	105 (*o.a.*) × 30½ × 8 (*max.*) feet
Machinery:	Diesel-electric

Notes.—Both launched 1943. Wood.

BARBERRY (Nov. 14, 1942) **COSMOS** (Nov. 11, 1942) **SMILAX**
BLUEBELL **PRIMROSE** **VERBENA**
BRIER **RAMBLER**

Displacement:	178 tons
Dimensions:	100 × 24 × 4½ feet
Machinery:	Diesel, with electric drive. B.H.P.: 300 = 8·5 kts.

Note.—Launch dates above.

Buoy Tenders—*continued.*

JONQUIL. 1947, *Official.*

HEATHER (ex-*Obstructor*) **JONQUIL** (ex-*Bastian*) **WILLOW** (ex-*Picket*)
IVY (ex-*Barbican*) **MAGNOLIA** (ex-*Barricade*)

Displacement:	1,250 tons (*full load*)
Dimensions:	188½ (*o.a.*) × 37 × 12 (*max.*) feet
Machinery:	Triple expansion. I.H.P.: 1,200 = 12 kts.

Notes.—Ex-Army mineplanters ACM 7, 5, 6, 3, 8, launched 1942. WAGL 331, 329, 330 328, 332, respectively.

JUNIPER

Launched: 18 May, 1940.

Displacement:	794 tons
Dimensions:	177 × 32½ × 9½ feet
Machinery:	Diesel, with electric drive. 2 shafts. B.H.P.: 900 = 13 kts.

MAPLE **NARCISSUS** **ZINNIA**

Displacement:	342 tons (*Maple*, 350 tons)
Dimensions:	122 × 27 × 6½ feet
Machinery:	Diesel. 2 shafts. B.H.P.: 400 = 10 kts.

Note.—All launched 1939.

MISTLETOE

Launched: 1939.

Displacement:	1,040 tons
Dimensions:	173 × 34 × 11 feet
Machinery:	Reciprocating. 2 shafts. I.H.P.: 1,000 = 12 kts.

FIR (1939) **HOLLYHOCK** (1937) **WALNUT** (1939)

Displacement:	885 tons
Dimensions:	175 × 32 × 11 feet
Machinery:	Reciprocating. 2 shafts. I.H.P.: 1,000 = 12 kts.

HEMLOCK

Launched: 1934.

Displacement:	1,005 tons
Dimensions:	175 × 32 × 12½ feet
Machinery:	Reciprocating. 2 shafts. I.H.P. 1,000 = 12

TAMARACK

Launched: 1934.

Displacement:	400 tons
Dimensions:	124 × 29 × 7½ feet
Machinery:	Diesel, with electric drive. B.H.P.: 600 = 10 kts.

Buoy Tenders—*continued.*

ARBUTUS
Launched: 1934.
Displacement: 960 tons
Dimensions: 175 × 32 × 12½ feet
Machinery: Reciprocating. 2 shafts. I.H.P.: 1,000 = 11 kts.

HICKORY
Launched: 1933.
Displacement: 400 tons
Dimensions: 131½ × 24½ × 9½ feet
Machinery: Reciprocating. I.H.P.: 500 = 12 kts.

LILAC
Launched: 1933.
Displacement: 770 tons
Dimensions: 172 × 32 × 8½ feet
Machinery: Reciprocating. 2 shafts. I.H.P.: 1,000 = 11·5 kts.

COLUMBINE (1931) **LINDEN** (1931) **WISTARIA** (1933)
Displacement: 323 tons
Dimensions: 121½ × 25 × 6½ feet
Machinery: Diesel, with electric drive. B.H.P.: 240 = 9 kts.
Note.—Launch dates above.

VIOLET
Launched: 1930.
Displacement: 1,012 tons
Dimensions: 173½ × 32 × 10½ feet
Machinery: Reciprocating. 2 shafts. I.H.P.: 1,000 = 12 kts.

HAWTHORN **OAK**
Displacement: 875 tons
Dimensions: 160 × 30 × 9½ feet
Machinery: Reciprocating. I.H.P.: 750 = 8 kts.
Note.—Both launched 1931.

CEDAR
Launched: 1917.
Displacement: 1,370 tons
Dimensions: 201 × 36 × 14 feet
Machinery: Reciprocating. I.H.P.: 1,300 = 12 kts.
Note.—Out of commission in reserve.

Smaller buoy tenders include the following :

CLEMATIS (1944), **SHADBUSH** (1944), } 93 tons
BLACKROCK (1942), 160 tons
BIRCH (1939), 76 tons
JASMINE (1939), **BLUEBONNET** (1935), } 184 tons
ELM (1937), 69 tons
RHODODENDRON (1935), 140 tons
DAHLIA (1933), 160 tons
CHERRY (1932), 202 tons
MYRTLE (1932), 186 tons
ALTHEA (1930), **POINCIANA** (1930), } 120 tons
BEECH (1928), 255 tons
PALMETTO (1916), 170 tons

River service buoy tenders comprise the following :

FOXGLOVE (1944), **SUMAC** (1944), **FERN** (6 Nov. 1942) } 350 tons
LANTANA (1943) 273 tons
OLEANDER (1940) 80 tons
DOGWOOD (1942), **FORSYTHIA** (1940), **SYCAMORE** (1940) } 230 tons
GOLDEN ROD (1938), **POPLAR** (1939) } 193 tons

WAKEROBIN (1927)
Displacement : 575 tons
Dimensions : 182 × 43 × 4 feet
Machinery : I.H.P. : 550 = 6 kts
Note.—*Wakerobin* is on loan to U.S. Army Engineers.

Supply Ships (WAK).

KUKUI
Launched : 1944
Displacement: 4,900 tons
Dimensions: 338½ (*o.a.*) × 50 × 21 (*max.*) feet
Machinery: Diesel. B.H.P.: 1,700 = 12 kts.
Notes.—WAK 186. Sister ship *Unalga* (WAK 185) striken from list. Appearance very similar to that of Radioship *Courier*.

NETTLE (ex-*FS* 396) **TRILLIUM** (ex-*FS* 397)
Displacement: 728 tons
Dimensions: 176½ (*o.a.*) × 32 × 10 (*max.*) feet
Machinery: Diesel. B.H.P.: 1,000 = 13 kts.
Notes.—Ex-Army craft. WAK 169, 170. Both launched 1944. *Trillium* decommissioned.

Lightships.

Notes.—Total 41. Five decommissioned. 36 active: 27 on Station assignments and nine relief lightships. Overall length: 97 to 149 feet.

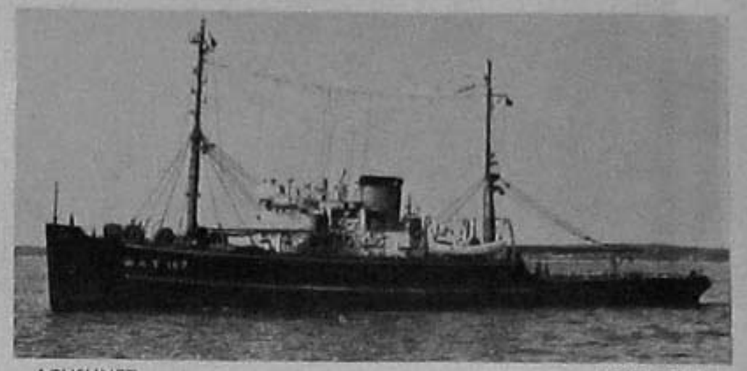
Training Ship.

(Auxiliary Barque) WIX.

EAGLE. *Added* 1949.

EAGLE (ex-*Horst Wessel*)
Builders: Blohm & Voss, Hamburg.
Launched: 13 June, 1936.
Displacement: 1,634 tons (1,800 tons *full load*)
Dimensions: 265½ (*pp.*), 295¼ (*o.a.*) × 39½ × 15½ (*mean*), 17 (*max.*) feet
Sail area: 21,350 sq. ft.
Height of masts: 150 feet
Speed: As high as 18 kts. under full sail alone
Machinery: 2 M.A.N. auxiliary Diesels. B.H.P.: 700 = 10 kts.
Oil fuel: 48 tons
Notes.—Former German training ship for naval cadets. Taken by the United States as a reparation after the war for employment in U.S. Coast Guard Practice Squadron. Has made four cruises to European waters to train C.G. cadets. Sister ship, *Albert Leo Schlageter*, also fell into American hands, but was sold to Brazil.

Oceangoing Tugs (WAT).



ACUSHNET. 1948. *Official.*

ACUSHNET (ex-*Shackle*) **YOCONA** (ex-*Seize*)
Displacement: 1,557 tons
Dimensions: 207 (*w.l.*), 213½ (*o.a.*) × 39 × 13 (*mean*), 15½ (*max.*) feet
Machinery: Diesel-electric. 2 shafts. H.P.: 3,000 = 14 kts.
Note.—WAT 167, 168. Launched 1 Apr. 1943, 8 Apr. 1944, respectively.

CHEROKEE **TAMAROA**
Displacement: 1,170 tons
Dimensions: 195 (*w.l.*), 205½ (*o.a.*) × 38½ × 12 (*mean*), 16 (*max.*) feet
Guns: 1—3 inch, 50 cal., 2—20 mm. AA.
Machinery: Diesel-electric. H.P.: 3,000 = 16 kts.
Note.—WAT 165 and WAT 166, launched 10 Nov. 1939 and 13 July 1943.

Harbour Tugs (WYT).

YONAGUSKA
Launched : 1944
Displacement : 332 tons
Dimensions : 100 (*o.a.*) × 27 × 8½ (*mean*), 11½ (*max.*)
Machinery : Diesel Electric. S.H.P. : 1,000 = 10 kts.
Notes.—Transferred from U.S. Navy. Former U.S.S. *Yonaguska*, YTB 195. Now WYT 195.

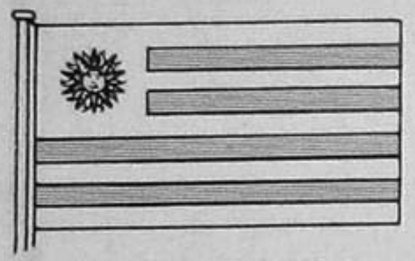
ARUNDEL (June 24, 1939)
MAHONING (July 22, 1939)
NAUGATUCK (March 23, 1939)
RARITAN (March 23, 1939)
KAW (1942)
MANITOU (Sept. 29, 1942)
CHINOOK (July, 1943)
MOHICAN (July, 1943)
OJIBWA (Aug. 10, 1943)
SAUK (Aug. 10, 1943)
SNOHOMISH (Aug. 10, 1943)
APALACHEE (1943)
YANKTON (1943)
Displacement: 328 tons
Dimensions: 110 (*o.a.*) × 26½ × 10½ (*mean*), 12½ (*max.*) feet
Machinery: Diesel-electric. S.H.P.: 1,000 = 12 kts.
Notes.—First pair built by Gulfport Works, Port Arthur, Texas; second pair by Defoe Works, Bay City, Mich.; third pair by Coast Guard Yard, Curtis Bay, Md.; remaining 7 by Ira S. Bushey & Son, Brooklyn, N.Y. Launch dates above. Strengthened for icebreaking.

3 *Charleston Navy Yard*
CALUMET
NAVESINK
TUCKAHOE
1 *Portsmouth Navy Yard*
HUDSON
Displacement: 290 tons
Dimensions: 110½ × 24 × 10½ (*mean*), 11½ (*max.*) feet
Machinery: Diesel, with electric drive. B.H.P.: 800 = 12 kts.
Notes.—Strengthened for icebreaking. All launched 1934. Builders above.

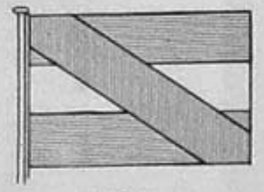
106
/R

URUGUAY.

Flags.



ENSIGN AND MERCANTILE



JACK

PRESIDENT

Administration.

Minister of Defence : Señor Escribano Don Ledo Arroyo Torres.
Inspector General of the Navy : Rear-Admiral Alfredo Aguiar.
Naval Attache in London : Captain Santiago Turcio.

Frigates.

ARTIGAS. 1953, *Official*.

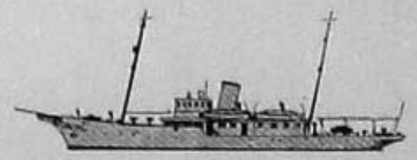
ARTIGAS (ex-*U.S.S. Bronstein, DE* 189) **URUGUAY** (ex-*U.S.S. Baron, DE* 166)

Displacement :	1,240 tons (1,900 tons *full load*)
Dimensions :	306 (*o.a.*) × 36½ × 12 (*max.*) feet
Guns :	3—3 inch, 2—40 mm., 4—20 mm.
Machinery :	Diesel-electric. 2 shafts. B.H.P. : 6,000 = 21 kts.

Notes.—Former United States destroyer escorts of the " Bostwick " class, transferred to Uruguay in 1951. *Uruguay* has no mainmast

Pendant No.	*Name*	*Builders*	*Launched*	*Completed*
DE 2	*Artigas*	Federal S.B. & D.D Co., Port Newark	14 Nov. 1943	13 Dec. 1943
DE 1	*Uruguay*		9 May 1943	5 July 1943

Silhouettes.



CAPITAN MIRANDA.

PAYSANDU *Class.*

Personnel.

1,470 officers and ratings.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 48 vessels of 64,904 tons *gross*.

Frigate (Training Ship)

(*Buque Escuela*)

Added 1953

(ex-H.M.C.S. *Arnprior*, ex-H.M.S. *Rising Castle*)

Builders :	Harland & Wolff, Ltd., Belfast
Laid down :	21 June 1943
Launched :	8 Feb. 1944
Completed :	26 June 1944
Displacement :	1,010 tons *standard* (1,600 tons *full load*)
Dimensions :	251½ × 36¾ × 17½ (*max.*) feet
Machinery :	Triple expansion. 190 r.p.m. I.H.P. : 2,750 = 17 kts.
Boilers :	2 water tube, oil fired

Notes.—Former British and Canadian " Castle " class corvette (frigate).

Patrol Vessels.

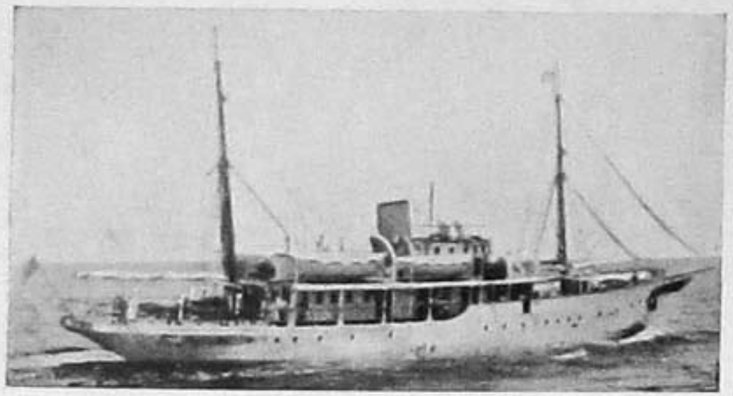
MALDONADO. 1953, *Official.*

MALDONADO (*ex-PC* 1234)

Launched :	3 Apr., 1943
Displacement :	280 tons
Dimensions :	165 (*w.l.*), 173½ (*o.a.*) × 23 × 6½ feet
Guns :	2—3 inch d.p., 4 M.G. and D.C.
Machinery :	2 sets G.M. 2-stroke Diesels. 2 shafts. B.H.P. : 3,750 = 22 kts.
Complement :	80

Notes.—Former submarine chaser. Transferred from U.S. Navy in 1944. Pendant No. B 1.

Surveying Vessel

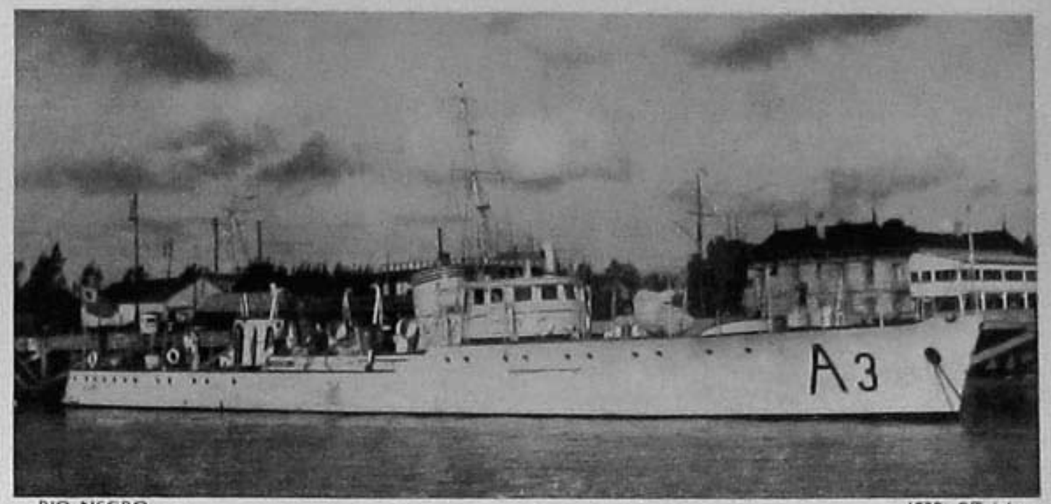


CAPITAN MIRANDA

Builders :	S.E. de C.N., Matagorda, Cadiz
Launched :	1930
Displacement :	516 tons
Dimensions :	148 (*pp.*) × 28 × 10 feet
Machinery :	1 M.A.N. Diesel. B.H.P. : 500 = 10·5 kts.
Oil fuel :	45 tons

Patrol Vessels—*continued.*

3 "Paysandu" Class.



RIO NEGRO. 1939, *Official.*

PAYSANDU **RIO NEGRO** **SALTO**

Displacement :	180 tons *standard*
Dimensions :	137½ × 19 × 5½ feet
Guns :	2—3 inch, 2—47 mm. AA. 2 M.G.
Machinery :	2 sets Germania Diesels. B.H.P. : 1,000 = 17 kts.
Oil fuel :	18 tons
Radius :	4,000 miles at 10 kts.
Complement :	51

Pendant No.	*Name*	*Builders*	*Launched*
A 1	*Paysandu*	Cantieri Navali Riuniti, Ancona	21 Jul., 1935
A 2	*Rio Negro*		22 Aug., 1935
A 3	*Salto*		11 Aug., 1935

Rescue Motor Launch (*Lancha de Rescate*)

AR 1. 1953, *Official.*

AR 1 (4 July 1944)

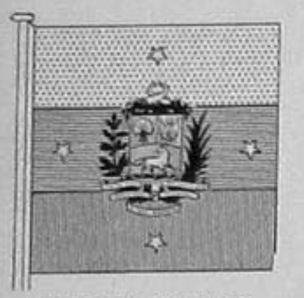
Speed : 33 kts.

Old Training Ships and Tenders.

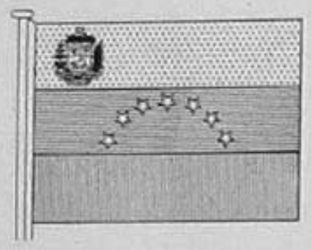
Note.—Training ships *Uruguay* (old sloop), *Diez y ocho de Julio* (harbour) and *Aspirante* (seagoing), and tenders *Corsario*, *Huracán*, *Vanguardia* and *Zapicán* all scrapped in 1953.

VENEZUELA.

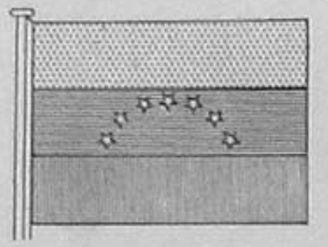
Flags.



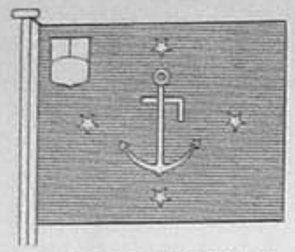
PRESIDENT'S STANDARD



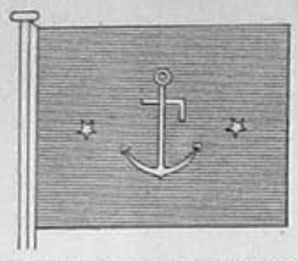
NATIONAL ENSIGN



MERCHANT FLAG

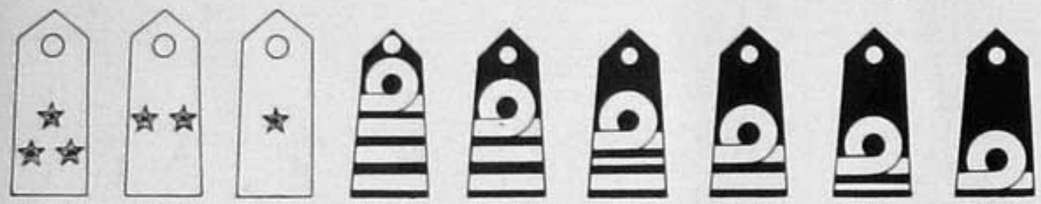


MINISTER OF DEFENCE



COMMANDER OF NAVAL FORCES

Uniforms.



Administration.

Minister of Defence : Colonel Marcos Perez Jimenez.
Commandant of Venezuelan Naval Forces : Commander Oscar Ghersy Gomez.
Chief of Naval Staff : Commander Marco T. Montero L.

Naval Base.

A naval base is projected. To be built at Turiamo.

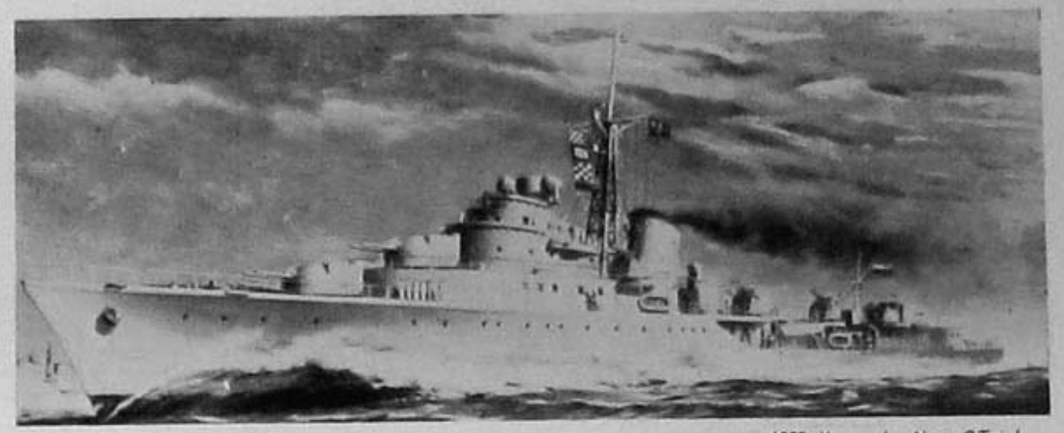
Personnel.

200 officers and 2,000 men. Includes two battalions of Marines. Duration of service in the Navy is two years.

Mercantile Marine.

Lloyd's Register appendix, 1953 : 101 vessels of 173,724 tons *gross*.

Destroyers.



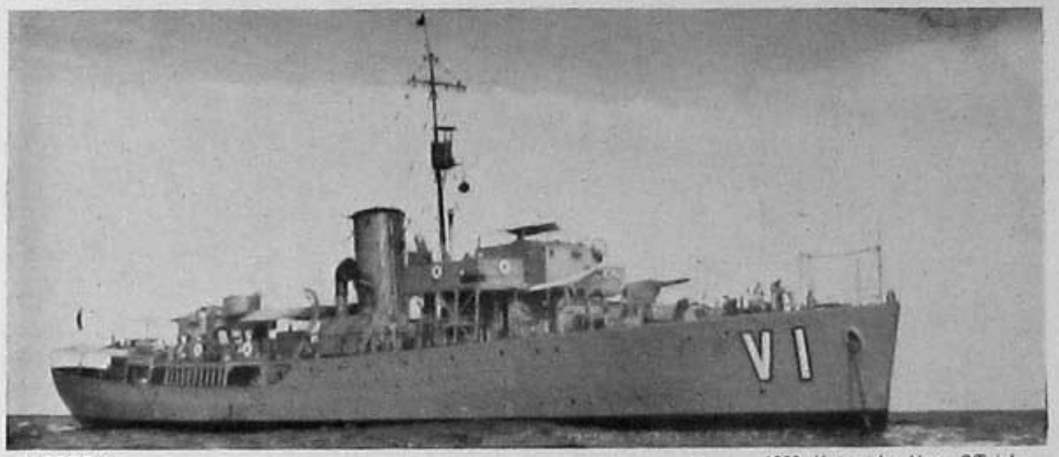
1952, *Venezuelan Navy, Official.*

ARAGUA **NUEVA ESPARTA** **ZULIA**

Displacement :	2,600 tons (3,200 tons *full load*)
Dimensions :	300 × 40 × 14 feet
Guns :	6—4·1 inch (105 mm.), 8—40 mm.
Tubes :	3—21 inch
Machinery :	Parsons geared turbines, 2 shafts, S.H.P. : 35,000 = 31 kts.
Complement	240

Note.—Under construction by Vickers-Armstrongs, Barrow-in-Furness. Cost of first two, ordered 1950 : £5,000,000. Both laid down 24 July, 1951. *Aragua* laid down 29 June, 1953. *Nueva Esparta* launched 19 Nov., 1952, *Zulia* launched 29 June, 1953.

Frigates (*Corvettes*).



VICTORIA.
1953, *Venezuelan Navy, Official.*

CONSTITUCION (Dec. 17 1940) **FEDERACION** **PATRIA** (1941) **VICTORIA** (1941)

Displacement :	1,060 tons (1,350 tons *full load*)
Dimensions :	205 (o.a.) × 33 × 14 feet
Guns :	1—4 inch (102 mm.), 1—3 inch (75 mm.), 2—20 mm. AA.
Machinery :	Triple expansion. I.H.P. : 2,750 = 17 kts.
Boilers :	2 Scotch type
Complement :	70

Notes.—Former Canadian "Flower" type corvettes *Algoma*, *Battleford*, *Oakville* and *Wetaskiwin*. Launch dates above. *Carabobo* lost on passage from Canada. *Libertad* ran aground off western Venezuela, 12 April, 1949 and discarded. *Independencia* stricken 1953.

Landing Ship.

1952, *Venezuelan Navy, Official.*

CAPANA (ex-LST 907)

Launched 18 Mar. 1944

Displacement :	1,625 tons (4,080 tons *deep load*)
Dimensions :	328 (*o.a.*) × 50 × 14 (*max.*) feet
Guns :	2—3 inch (75 mm.) D.P. : 20—20 mm. AA.
Machinery:	2 G.M. Diesels. 2 shafts. B.H.P. : 1,700 = 12 kts.
Complement :	129

Notes.—Purchased in U.S.A. 1947. Recently employed as sea-going training ship for cadets.

Patrol Launches.

4 U.S. Type.

1952, *Venezuelan Navy, Official.*

ANTONIO DÍAZ ARISMENDI — **BRICEÑO MÉNDEZ BRION**

Displacement :	47 tons
Dimensions :	83 × 16 × 4 feet
Machinery :	2 G.M. Diesels. 2 shafts. B.H.P. : 1,600 = 20 kts.
Complement :	10

Notes.—All launched 1937. Ex-U.S. Coast Guard cutters acquired 1947. Wood.

Survey Launches.

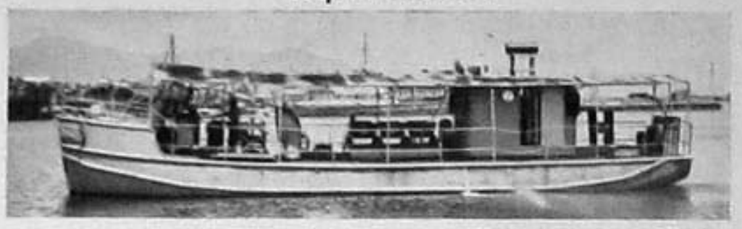
CARIBE. 1952, *Venezuelan Navy, Official.*

TORBES — **CARIBE** (GC 3)

Displacement :	186 tons
Dimensions :	101 × 21 × 10 feet
Machinery :	2 Cleveland, 8-cylinder, 1,200 r.p.m. Diesels B.H.P. : 1,000
Complement :	10

Notes.—Survey Vessels and Buoy Tenders. *Torbes* launched at Puerto Cabello. 27 Feb. 1950.

Repair Launch.



1952, *Venezuelan Navy, Official.*

Displacement :	40 tons
Dimensions :	50 × 8 × 6 feet
Machinery :	2 Superior Diesels. B.H.P. 250
Complement :	8

Fleet Tug.

1952, *Venezuelan Navy, Official.*

FELIPE LARRAZÁBAL

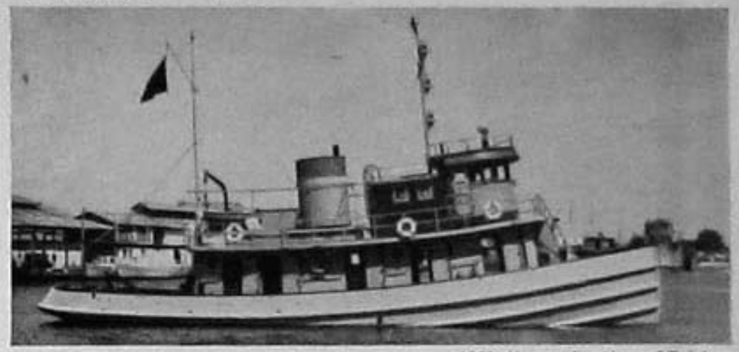
Displacement :	704 tons (980 tons *full load*)
Dimensions :	172 × 32 × 17 feet
Machinery :	2 Compound steam triple expansion I.H.P. : 2,400 = 12 kts.
Boilers :	2 water tube. Working pressure 180 lb/sq. in.
Complement :	40

Tugs.

1952, *Venezuelan Navy, Official.*

FERNANDO GÓMEZ

Displacement :	161 tons
Dimensions :	80 × 19 × 8 feet
Machinery :	Clark Diesel, 6-cyl, 315 r.p.m. B.H.P. : 650
Complement :	10



1952, *Venezuelan Navy, Official.*

ESTEBAN ROJAS

Displacement :	164 tons
Dimensions :	74 × 20 × 8 feet
Machinery :	Atlas Imperial Diesel. B.H.P. : 400
Complement :	12

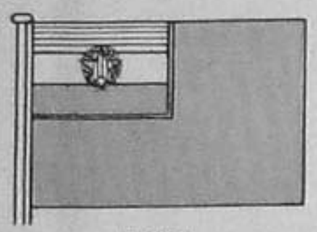
CARACAS 1952, *Venezuelan Navy Official.*

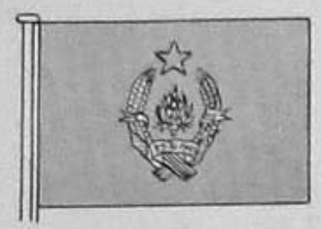
Displacement :	480 tons
Dimensions :	110 × 26 × 13 feet
Machinery :	1 Compound steam triple expansion engine
Boilers :	1 Water tube, working pressure 180 lb./sq. in.
Complement :	19

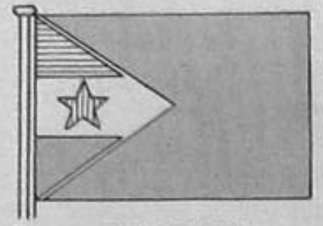
1954
12

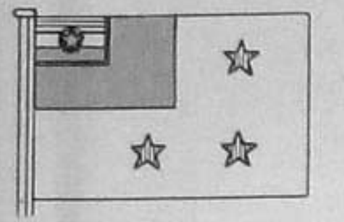
YUGOSLAVIA

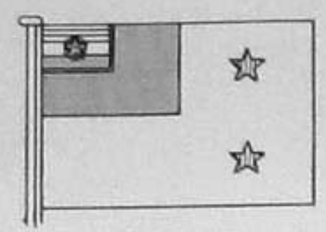
Flags.

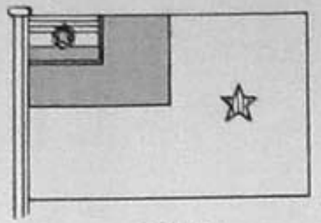

ENSIGN

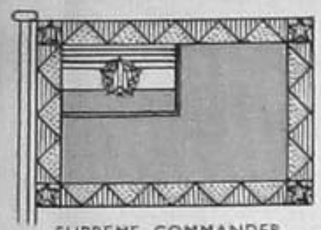

JACK


SHIPS OF THE NATIONAL DEFENCE


COMMANDER-IN-CHIEF OF THE NAVY

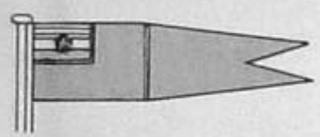

SQUADRON COMMANDER

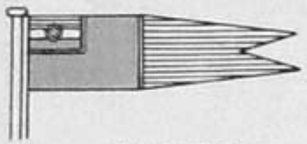

FLOTILLA COMMANDER

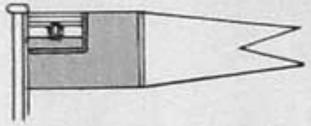

SUPREME COMMANDER ARMED FORCES

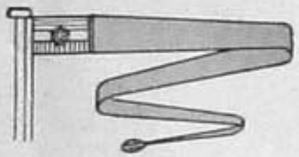
HONOUR FLAG

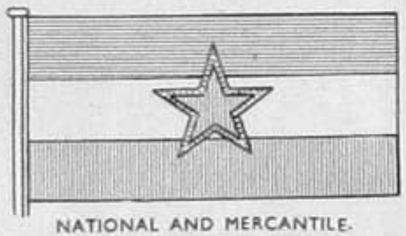
AUXILIARY SHIPS


DIVISION COMMANDER


SUB-DIVISION COMMANDER


SENIOR OFFICER


PENDANT.


NATIONAL AND MERCANTILE.

Red
White
Blue
Yellow

Uniforms.

Admiral.	Vice-Admiral.	Kontra-admiral.	Kapetan bojnogbroda	Kapetan fregate	Kapetan korvete	Poručnik bojnogbroda	Poručnik fregate	Poručnik korvete	Potporučnik
British Equivalent }		*Rear Admiral.*	*Captain over 3 years*	*Captain under 3 years*	*Commander.*	*Lt.-Commdr.*	*Lieutenant*	*Sub.-Lieut.*	*Acting Sub.-Lieut.*

Between the stripes *Engineers* have silver grey, *Supply Officers* red, *Constructors* purple, and *Warrant Officers* brown. *Surgeons* have an Æsculapius snake on the curl.

Administration.

Commander-in-Chief: Vice-Admiral M. Jerkovitch
Naval, Military and Air Attaché, London: Lieut.-General Bogdan Orešcanin

Personnel.

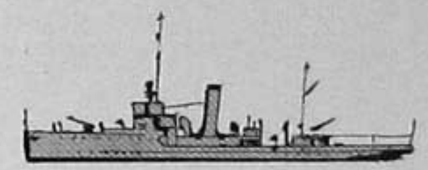
6,300 officers and men. Reserve: 1,100 officers and men.

Mercantile Marine.

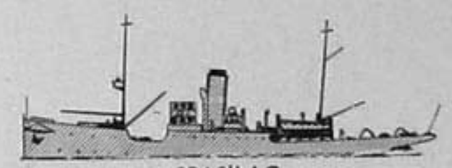
Lloyd's register appendix, 1953: 113 vessels of 251,571 tons *gross*.

Silhouettes.

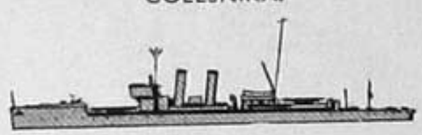
DURMITOR.

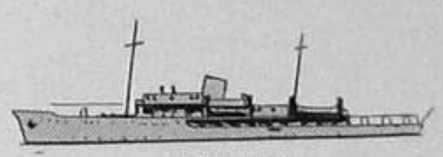

ZELENGORA.

TRIGLAV, BIOKOVO.


SPASILAC.

GOLESNIKA.


CER.


JABRANKA.

Destroyers.

SPLIT

Launched	1940
Displacement :	1,875 tons (2,400 tons *full load*)
Dimensions :	316½ × 36½ × 12½ feet
Guns :	5—5·5 inch, 10—40 mm. AA.
Tubes :	6—21·7 inch (tripled)
Mines :	40
Machinery :	Turbines. 2 shafts.
Speed :	37 kts.
Oil fuel :	590 tons

Notes.—Laid down by Chantières de Loire, Nantes, 1939, at Split Shipyard. Not yet complete. Two others of "Beograd" type reported building.

4 Ex-Italian Type.

DURMITOR. *Added 1945, courtesy Messrs. Ansaldo.*

53 DURMITOR (ex-*Ariete*, Ansaldo, March 6, 1943) **54 UČKA** (ex-*Balestra*)

Displacement:	797 tons (about 1,000 tons *full load*)
Dimensions :	265½ × 27½ × 9 feet
Guns:	2—3·9 inch (100 mm., 47 cal.) AA., 10—20 mm., 70 cal., AA.
Tubes :	6—18 inch (tripled)
Machinery :	2 sets Tosi geared turbines. 2 shafts. S.H.P. : 22,000 = 31·5 kts.
Boilers :	2, of 3-drum type
Oil fuel :	200 tons

Notes.—*Durmitor* is the only survivor of her class. Laid down 15 July 1942, and completed 5 Aug. 1943. She is in service but not fully equipped with armament. *Učka* is also in service but not fully equipped with armament. She is not quite of same type as *Durmitor*, being larger. New name Učka means the Monte Maggiore near Abbazia. *Učka* laid down 5 Sept., 1942, and *Fienda*, laid down 26 Aug., 1942, were damaged on slip by bombs 20 Feb., 1945, rebuilt and completed by Yugoslavia.

BIOKOVO. *1947, Lieut. Aldo Fraccaroli.*

52 BIOKOVO (ex-*Aliseo*, C.N.M. Castellammare, Sept. 20, 1942) **51 TRIGLAV** (ex-*Indomito*, C.T. Riva, Trigoso, July 6, 1943)

Displacement:	1,095-1,204 tons *standard* (1,649-1,709 tons *full load*)
Dimensions :	270½ (*pp.*), 293 (*o.a.*) × 32½ × 9½ feet
Guns :	3—3·9 inch, 47 cal., d.p., 11—20 mm. AA. (*Biokovo* : 2—3·9 inch, 10—20 mm. AA.) 4 D.C.T.
Tubes :	4—18 inch
Machinery :	2 sets Tosi geared turbines. 2 shafts. S.H.P. : 15,500-16,000 = 25-26 kts.
Boilers :	2, of 3-drum type
Oil fuel :	430 tons
Complement :	175

Notes.—Ex-Italian. Builders and launch dates above.

Torpedo Boats (*Torpiljarke*).

2 Ex-Austrian Type.

1931 Photo, Official.

91 GOLESNICA (ex-*T* 1, ex-*T* 76) **92 CER** (ex-*T* 5, ex-*T* 87)

Displacement :	262 and 266 tons, respectively
Dimensions :	188½ × 18½ × 5 feet
Guns :	2—66 mm. 1 M.G.
Tubes :	4—18 inch (paired)
Machinery :	Turbines. 2 shafts. S.H.P. : 5,000 = 20 kts.
Boilers :	2 Yarrow
Fuel :	18 to 20 tons coal, 24 to 34 tons oil.
Complement :	52

Notes.—Both launched in 1913. Built by Stab, Tecnico, Trieste, and Granz-Danubius Co., Porte Ré, Fiume respectively. *T* 1 similar in appearance to *Sborul* in Roumanian section. *T* 5 similar to *T* 8.

Submarines (*Podmornice*).

1 British Design.

Added 1952, Lieut. H. E. Jenkins, R.N.V.R.

NEBOJSA

Builders :	Armstrong
Launched :	1927
Displacement :	975 tons *surface* ; 1,164 tons, *submerged*
Dimensions :	236½ × 24 × 13 feet
Guns :	2—4 inch AA., 1 M.G.
Tubes :	6—21 inch (4 bow, 2 stern)
Machinery :	B.H.P.: 2,400=15 kts. *surface* ; H.P.: 1,600=10 kts. submerged.
Radius :	5,000 miles at 9 kts.
Complement :	45

Notes.—This name means "Dreadnought". Design is a modification of the British "L" type, materials having been assembled originally for *L* 68, never built.

1 Ex-German Type.

TARA (ex-*U* 81)

Note.—Reported to be in Pola Shipyard after having been salvaged.

2 Ex-Italian Type

NAUTILO

Notes.—Raised and refitting. Ex-Italian submarine reported refloated. Another ex-Italian submarine reported in Pola Shipyard after having been salvaged.

Midget Submarines.

Note.—It is reported that three ex-Italian midget submarines of "CB" type may also exist.

163 R

Motor Torpedo Boats (*Torpedni Čamci*).

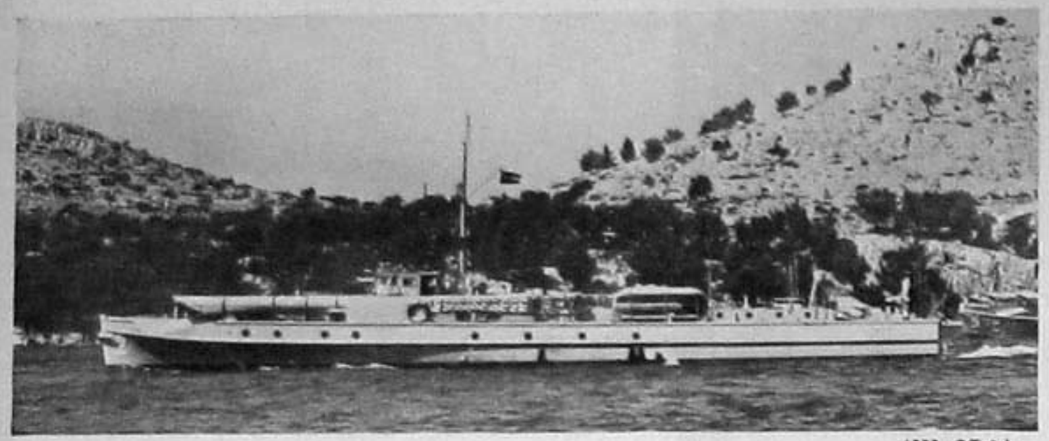
New Programme Note.—Official number of MTB's is 46. Under programmes in hand it is planned to raise this to 108 by 1961.

8 American Type

MT 1 (ex-*PT 201*) **MT 2** (ex-*PT 204*) **MT 3** (ex-*PT 207*) **MT 4** (ex-*PT 208*) **MT 5** (ex-*PT 209*) **MT 6** (ex-*PT 211*) **MT 7** (ex-*PT 213*) **MT 8** (ex-*PT 217*)

Displacement :	56 tons *full load*
Dimensions :	78 × 20¼ × 5½ feet
Guns :	1—40 mm. AA.
Tubes :	4
Machinery :	3 Packard motors, 3 shafts. H.P. : 4,500 = 35 kts.
Complement	17

Notes.—Built by Higgins. All launched 1942. Transferred from U.S. Navy in 1945.



1939, *Official*.

391 (ex-*Durmitor*) **392** (ex-*Kaimakcalan*)

Displacement:	60 tons
Dimensions :	92 × 14 × 5 feet
Guns :	1—47 mm. AA., 1 M.G. AA.
Tubes :	2—18 inch
Machinery :	4 Mercedes-Benz petrol motors. H.P. : 3,000 = 34 kts.
Complement :	14

Note.—Built by Lürssen, Vegesack, 1936-37.

Minelayer (*Minopolagaci*).

M 21 ZELENGORA (ex-*Orao*, ex-M 97)

Builders :	Techlenborg, Geestemünde.
Launched :	1918
Displacement :	330 tons *standard* (500 tons *full load*)
Dimensions :	182 (*w.l.*), 192 (*o.a.*) × 23½ × 7 feet
Guns :	2—3·9 inch AA., 4—3 pdrs.
Machinery:	I.H.P.: 1,800 tons = 15 kts.
Oil fuel :	160 tons
Complement :	71

Notes.—This name means "Eagle." While in Italian hands *Orao* was named *Vergada*.

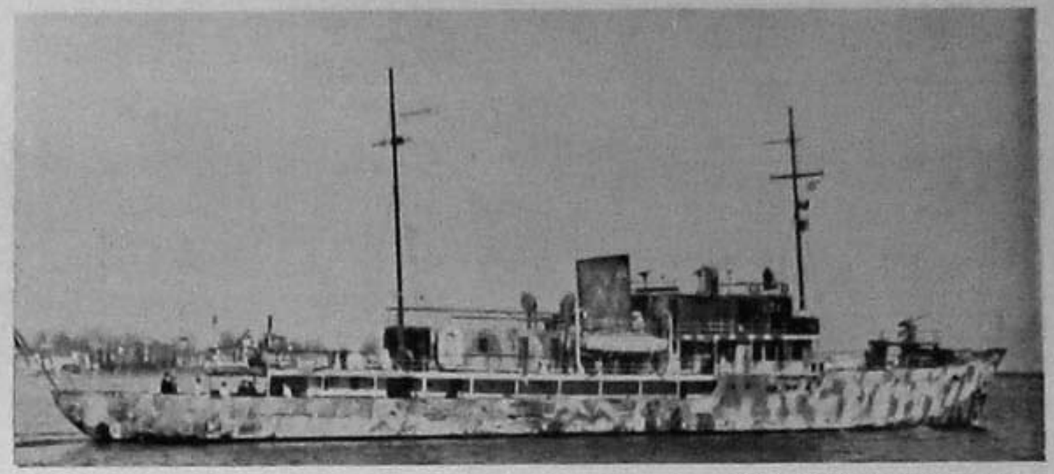
Landing Craft.

D 206 (ex-MZ713) **MZ 717**

Displacement	225 tons

Notes.—Ex-Italian. Launched 1942.

Patrol Vessel.



Added 1951, *Lieut. Alda Fraccaroli*.

JABRANKA (ex-*Bjeli Orao*)

Builders :	C. R. dell' Adriatico, San Marco, Trieste
Launched :	3 Jun., 1939
Displacement :	567 tons *standard* (660 tons *full load*)
Dimensions :	197 (*pp.*), 213½ (*o.a.*) × 26½ × 9½ feet
Guns :	2—40 mm. AA., 2 M.G.
Machinery :	2 Sulzer Diesels. B.H.P. : 1,900 = 18 kts.

Notes.—Was used as Royal yacht. Now used as Admiralty yacht and yacht of Marshal Tito. While in Italian hands was named *Alba* for some days only, then *Zagabria*.

Minesweepers (*Minolovci*).

7 Ex-Italian Type.

ML 301 (ex-*RD 6*) **ML 303** (ex-*RD 21*) **ML 304** (ex-*RD 25*) **ML 305** (ex-*RD 27*) **ML 306** (ex-*RD 28*) **ML 307** (ex-*RD 29*) **ML 302** (ex-*RD 16*)

Displacement :	151 to 156 tons
Dimensions :	116 × 19½ × 6 feet
Guns :	1—3 inch AA.
Machinery :	Triple expansion. I.H.P. : 750 = 10 kts.

Notes.—Formerly Italian. Launched 1917-19. A number of small armoured fishery vessels of wooden construction are used as minesweepers.

Submarine Depot Ships (*Matica za Podmornice*).

PK 11 MORNAR (ex-*Hvar*, ex-*Solum*, ex-*Umtali*)

Builders :	Sir Jas. Laing & Sons, Ltd., Sunderland
Launched :	1896
Displacement :	3,600 tons
Dimensions :	318½ × 39 × 13 feet
Machinery :	Triple expansion. H.P. : 1,100 = 12 kts.

Notes.—Rebuilt 1927. This vessel was recovered intact from the Italians, who had renamed her *Quarnerolo*.

PB 21 MINER (ex-*Sitnica*, ex-*Najade*)

Launched :	1891
Displacement :	370 tons
Dimensions :	157½ × 23 × 6½ feet
Machinery :	Triple expansion. H.P. : 500 = 9 kts.
Guns :	2—3 pdr.

Notes.—Former name means "Dew" Italians renamed her *Curzola*.

Training Ships (*Skolski Brodovi*).

M 11 GALEB (ex-*Ramb III*)

Launched :	1938
Measurement :	3,667 tons gross
Machinery :	Diesel motors.
Speed :	17 kts.

Notes.—Formerly Italian. Refloated and completed summer 1951. Now serving as a training ship. Also intended for minelaying purposes.

JADRAN

Launched :	1932
Displacement :	720 tons
Dimensions :	109 × 29½ × 13½ feet
Sail area :	8,600 sq. ft.
Machinery :	1 Linke-Hofmann Diesel. H.P. : 375 = 8 kts.

Notes.—Accommodation for 150 cadets. Name means "Adriatic." While in Italian hands the vessel was named *Marco Polo*.

Mining Tenders (*Tenderi minopolagaci*).

M Type. 1939, *Official*.

M 31 (ex-*Meljine*) **M 33** (ex-*Mljet*)

Builders :	Yarrow's Adriatic Yard, Kralyevica.
Launched :	1931
Displacement :	130 tons
Dimensions :	174 × 26½ × 13 feet
Guns :	1—47 mm.
Machinery :	Triple expansion. H.P. : 280 = 9 kts

Notes.—Identification letters were formerly painted on bows : ME, *Meljine* ; MT, *Mljet* While in Italian hands these vessels were named *Solta* and *Meleda*, respectively.

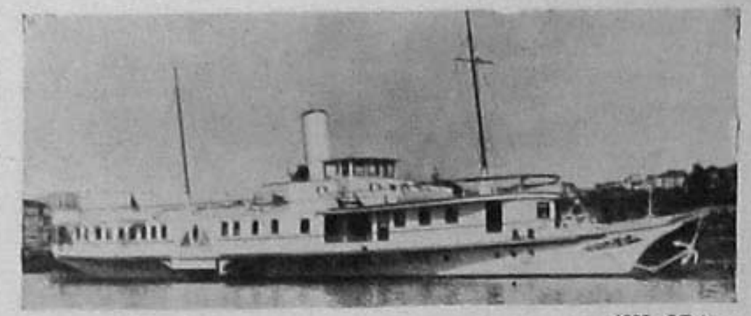
Salvage Vessel (*Brod za Spasavanje*).

PS 11 SPASILAC

Launched :	1929
Displacement :	740 tons
Dimensions :	174 × 26½ × 13 feet
Machinery :	Triple expansion. H.P. : 2,000 = 15 kts.

Notes.—Name means "Salvador." While in Italian hands she was called *Intangibile*.

River Patrol Vessels.



1939, *Official*.

KRAJINA (ex-*Dragor*)

Launched	1928
Displacement :	250 tons
Dimensions :	164 × 26½ × 3½ feet
Machinery :	H.P. : 480 = 10 kts.

Note.—Formerly served as Royal Yacht on Danube.

SISAK (ex-*Triglav*)

Launched :	1915
Displacement :	90 tons
Dimensions :	118 × 19½ × 6 feet
Guns :	2 M.G.
Machinery :	H.P. : 350 = 11 kts.

Note.—Converted tug.

SABAC (ex-*Avala*)

Launched	1914
Displacement :	90 tons
Dimensions :	101½ × 23 × 4½ feet
Machinery :	H.P. : 360 = 8 kts

Note.—Converted tug.

Yacht (*Jahta*).

ISTRANKA (ex-*Vila*, ex-*Dalmata*)

Displacement :	230 tons
Machinery :	H.P. : 325 = 12 kts.

Notes.—Name means "Nymph." Named *Fata* whilst in Italian hands, 1941-45.

Oiler.

ULJESURA

Note.—Photo and particulars wanted. Probably former Italian *Aniene* of 250 tons.

Water Carrier (*Vodonosac*).

PV 13 (ex-*Isarco*)

Launched :	1925
Displacement :	265 tons
Dimensions :	105½ × 19½ × 7½ feet
Machinery :	Tosi Diesel. B.H.P. : 200 = 9 kts.

Note.—Formerly Italian. Reported no longer exists.

Tugs (*Remorkeri*).

PR 52 (ex-*San Remo*)

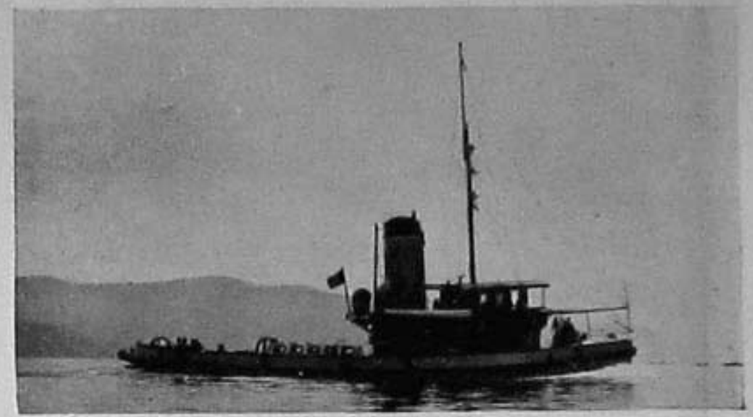
Launched :	1937
Displacement :	170 tons
Machinery :	H.P. : 350 = 9 kts.

Note.—Ex-Italian.

PR 58 (ex-*Molara*)

Launched :	1937
Displacement :	118 tons
Machinery :	H.P. : 250 = 8 kts.

Note.—Ex-Italian.



"PORTO" Class. *Added 1951.*

PR 51 (ex-*Porto Conte*)

Launched	1936
Displacement :	226 tons

Note.—Ex-Italian.

PR 55 (ex-*Snazi*)

Launched :	1917
Displacement :	100 tons
Machinery :	H.P. : 300 = 10 kts.

Notes.—Name means "Strong." Italian name, *Resistante*.

PR 54 (ex-*Ustrajni*)

Launched :	1917
Displacement :	160 tons
Machinery :	H.P. : 250 = 9 kts.

Notes.—Name means "Durable." Italian name, *Duratero*.

LR 11 (ex-*Basiluzzo*)

Launched :	1915
Displacement :	108 tons
Machinery :	H.P. : 130 = 8 kts.

Note.—Ex-Italian.

PP 21 (ex-*Marljivi*)

Launched	1898
Displacement :	130 tons
Machinery :	H.P. : 300 = 12 kts

Note—Name means "Industrious"

ADDENDA

GREAT BRITAIN

Page 31.
Visible (second) funnel of **DARING** has been altered, lengthened, and raked.

DARING. August 1953, *A. & J. Pavia*

AUSTRALIA

Page 85
Cruiser **SHROPSHIRE** is to be scrapped. It is not intended at present to seek a replacement.

INDIA

Page 103.
Rear-Admiral F. A Ballance, C.B., D.S.O., lent to Indian Navy as Flag Officer, Flotillas, Indian Fleet, from November 1953.
Page 104.
India reported to be negotiating for the purchase of a second cruiser, H.M.S. **ARGONAUT** from Great Britain.
Page 105.

GODAVARI. 1953, *A. & J. Pavia,*

SOUTH AFRICA

Page 117
SKILPAD sank at her moorings at Durban during gale on night of 22 July 1953.

BELGIUM

Page 131.
16 AMS 60 NATO motor minesweepers building in United States under Mutual Defense Assistance Program, with U.S. hull numbers AMS 63-65, 77, 78, 101-104, 148-154.
8 AMS 60 NATO motor minesweepers building in Belgium, with machinery and armament from U.S. under MDAP
2 PC Patrol Craft of U.S. design building in U.S. under MDAP

CHILE

Page 142.
Naval Attaché, London: Captain R. Mackay.

CHINA (COMMUNIST)

Page 157.
Major vessels: 8 ex-Japanese frigates, 1 corvette, 3 gunboats (including a rearmed corvette).
Other vessels: 3 old gunboats, 16 river gunboats, 4 submarine chasers, 40 plus motor torpedo boats, 50 amphibious craft of various types.
Naval personnel strength (not including marines): Approximately 25,000 officers and ratings.
Reported that the Chinese Communist Navy is refitting, after refloating at Hulutao, North China, the 5,270 tons light cruiser **CHUNGKING** formerly H.M.S. *Aurora*, which when her crew deserted to the Communists was bombed and sunk by Chinese Nationalists to whom she had been given by Great Britain in 1948.

CHINA (NATIONALIST)

Page 151.
Large destroyer **TAN YANG** (ex-Japanese destroyer *Yukikaze*) built at Sasebo, Japan, in 1940, pendant number 12, previously reported unarmed, not commissioned, but operational, is now the largest combatant unit in the Nationalist Navy. New armament consists of 1 Japanese type twin mount 5-inch forward, 2 Japanese twin mounts 4·7-inch aft, 6 Japanese 25 mm. in twin mounts. Main battery effective for only surface bombardment. During trials in Feb. 1953, 27·5 kts. was reached, and 26 kts. maintained for an hour. Ship had undergone extensive overhaul during past two years. Depth charge racks are to be installed.

COLOMBIA

Page 162.
Frigate **ALMIRANTE BRIÓN**, handed over to the Republic of Colombia and renamed 26 June 1953, is ex-U.S.S. *Burlington*, PF 51.

FRANCE

Page 194.
A second fast light fleet aircraft carrier is being transferred to France by the United States namely **BELLEAU WOOD** to be renamed **BOIS BELLEAU**.
Page 201.
CHEVALIER PAUL to have been launched 30 June 1953 stuck on the ways but left the slip successfully 28 July 1953.
Following names allotted to projected *Escorteurs de Première Classe*:—

DUPERRE	Lorient Dockyard	**FORBIN**	Brest Dockyard
LA BOURDONNAIS	Brest Dockyard	**TARTU**	Ch. de Bretagne, Nantes
		JAUREGUIBERRY	Ch. de la Gironde, Bordeaux.

Page 204.
Names allotted to *Escorteurs de Deuxième Classe*:—
LE BRETON **LE BASQUE** Both Lorient Dockyard
Ex-British frigate **TONKINOIS** renamed **LA CONFIANCE** 17 June 1953.
Page 207.
Escort **ANNAMITE** renamed **CHAMOIS** 17 June 1953.
Page 211.
Following names allotted to Canadian built coastal minesweepers:—
LA BAYONNAISE, **LA DIEPPOISE,** **LA DUNKERQUOISE** **LA MALOUINE,** **LA PAIMPOLAISE**
U.S. built coastal minesweeper **NARCISSE** (ex-AMS 95) renamed **ALYSSE**
Names allotted to coastal minesweepers:—
ALTAIR, CAPRICORNE, both Cherbourg Dockyard.
CROIX DU SUD, ETOILE POLAIRE, both Ateliérs et Chantiers de la Seine Maritime.

GREECE

Page 226.
Coastal minelayers, ex-LSM 301 and 303, to be transferred from United States. Conversion authorised provides for bow doors plated in, well deck plated over, new deck house on centreline. four 12 inch, one 24 inch searchlights each, four kingposts with 1½-ton booms installed for mines to be laid from tracks with two opening cut in the stern, eight 40 mm. guns, 4 or 8 20 mm. guns, surface search radar and radar fire control.

EIGENDOM
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SCHEEPVAART EN LUCHTVAART

ADDENDA—*continued.*

ITALY

Page 243.

Two submarines will be transferred to Italy by the United States, Congress having approved.

Page 245.

18 AMS 60 class NATO motor minesweepers building in U.S. hull numbers AMS 72-76, 79-82, 88-90, 133-138, under MDAP.

JAPAN

Page 249.

The Coastal Security Force is to have strength of 1,620 officers and 8,700 men to man the projected fleet. In addition to 18 frigates and 54 gunboats taken over from United States Navy, the Coastal Security Force has taken over from the Maritime Safety Agency 50 minesweepers and 60 small craft and auxiliaries.

Submarine I-33 has been raised and is repairable. May be retained for training purposes.

Present Construction Programme:—

2 cutters (frigates) of 1,600 tons
3 cutters of 1,000 tons
6 patrol boats of 40 to 60 tons
Total: 16 ships aggregating 9,000 tons.

"A" 5-year Defence Plan.:—

10 aircraft carriers displacing 10,000 tons.
5 cruisers displacing 8,000 tons.
100 anti-submarine destroyers displacing 1,600 tons.
50 anti-submarine frigates displacing 1,000 tons.
Total: 165 ships aggregating 340,000 tons.

1 minesweeper of 600 tons
3 minesweepers of 320 tons
1 repair and supply ship of 1,000 tons

"B" 5-year Defence Plan:—

5 cruisers displacing 8,000 tons.
45 anti-submarine escorts, displacing 1,600 tons.
45 anti-submarine vessels displacing 800 tons.

Total: 95 ships aggregating 148,000 tons.

The latter plan is said to be backed by U.S. naval officers, but how much of the 5-year plans will materialise is problematical, since Japan must first amend its Constitution.

New names of ex-U.S. ships transferred to Japan:—Frigate **SAKURA**; Gunboats (LSSLs) **SHIRAGIKU, IWAGIKU, AZAMI, KAIDO, RINDO, TSUTSUJI, HIMAWARI, HIIRAGI, AJISAI.**

Gunboats (ex-U.S.S. LSSLs) **BOTAN, HAMAYURI, KANNA, ONIYURI, SEKICHIKU, SHOBU SUZURAN** and **YAMAYURI** transferred to Japan at Yokosuka 30 June 1953.

Delete " (ex-U.S.S. *Burlington*, PF 51) " and substitute " (ex-U.S.S. *Newport*, PF 27)."

NORWAY

Page 271.

GYLLER (as converted to escort). 1953, *C. Parsons.*

RUSSIA

Page 296.

Vice-Admiral N. G. Kuznetsov has again been promoted to Admiral of the Fleet. He was reduced to Rear-Admiral some years ago after suspicion of complicity with the West. Since the death of Stalin he has again risen in favour. Only other Admiral of the Fleet now is Admiral Isakov.

Page 301.

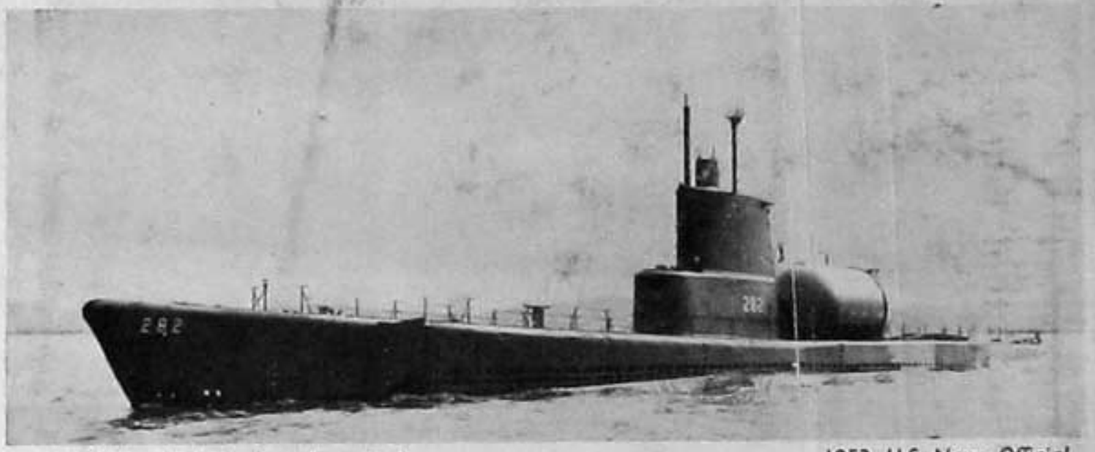
Details of **SVERDLOV** class:—

Displacement :	17,000 tons *full load*
Dimensions :	Length: 689 feet *overall*. Beam: 65¾ feet
Guns :	12—5·9 inch (actually 150 mm. or slightly less than 6-inch, possibly German 5·9 inch)
	12—3·4 inch (approximate calibre, actually 88 mm. or slightly less than 3·5 inch, possibly German 3·4 inch)
	32—30 mm.
Torpedo tubes :	10—21 inch (quintuple mountings)
Armour :	Continuous deep and thick belt all round ship from bow to stern
Mines :	140
Machinery :	2 shafts. Speed 34·5 kts. (estimated)
Boilers :	6

TCHAPAYEV class: 11,500 tons *standard* displacement, 64¾ feet beam.

UNITED STATES

Page 420.



TUNNY (guided missile submarine). 1953, *U.S. Navy, Official.*

Page 436.

Following non-commissioned U.S. Naval Ships (USNS) are now in reserve fleet.

SGT. HOWARD E. WOODFORD (T-AP 191)
LT. RAYMOND O. BEAUDOIN (T-AP 189)
PVT. JOE P. MARTINEZ (T-AP 187)
PVT. SADAO S. MUNEMORI (T-AP 190)
SGT. SYLVESTER ANTOLAK (T-AP 192)

VENEZUELA

Page 455.

Orders have been placed with Ansaldo in Italy for three light destroyers of 1,300 tons with a speed of 32 kts. for completion in 1956. Three more of the same type are projected.

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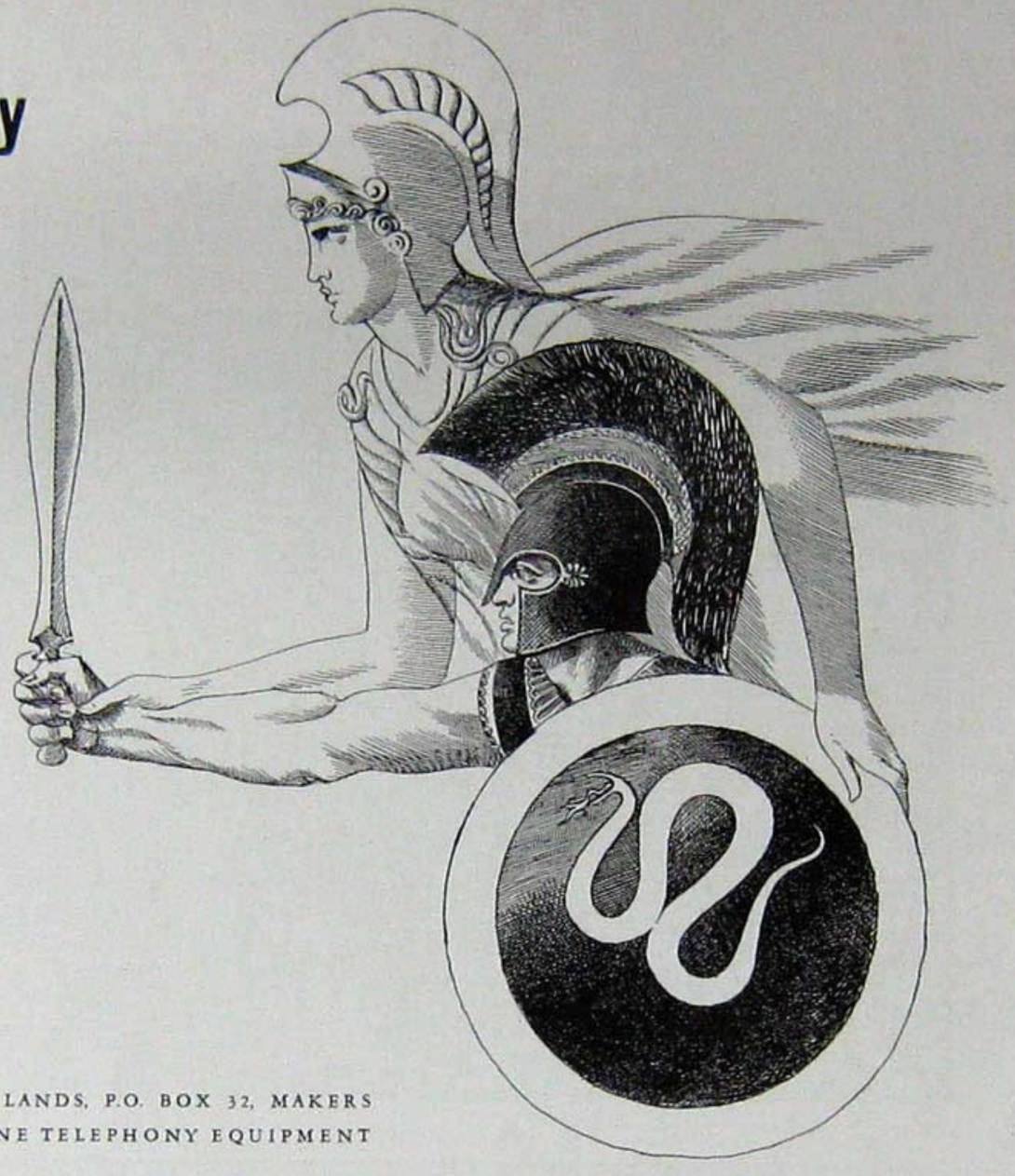

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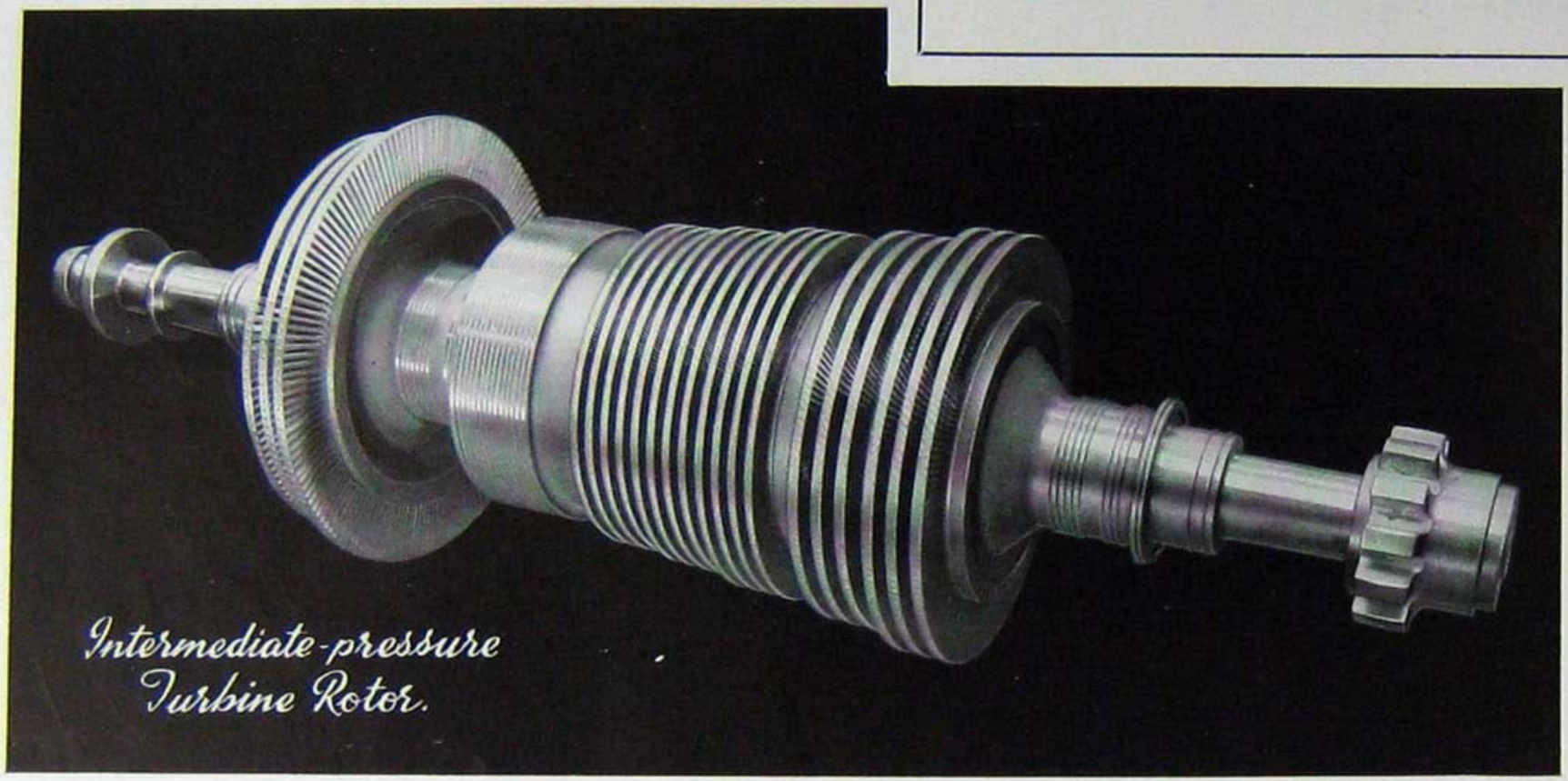

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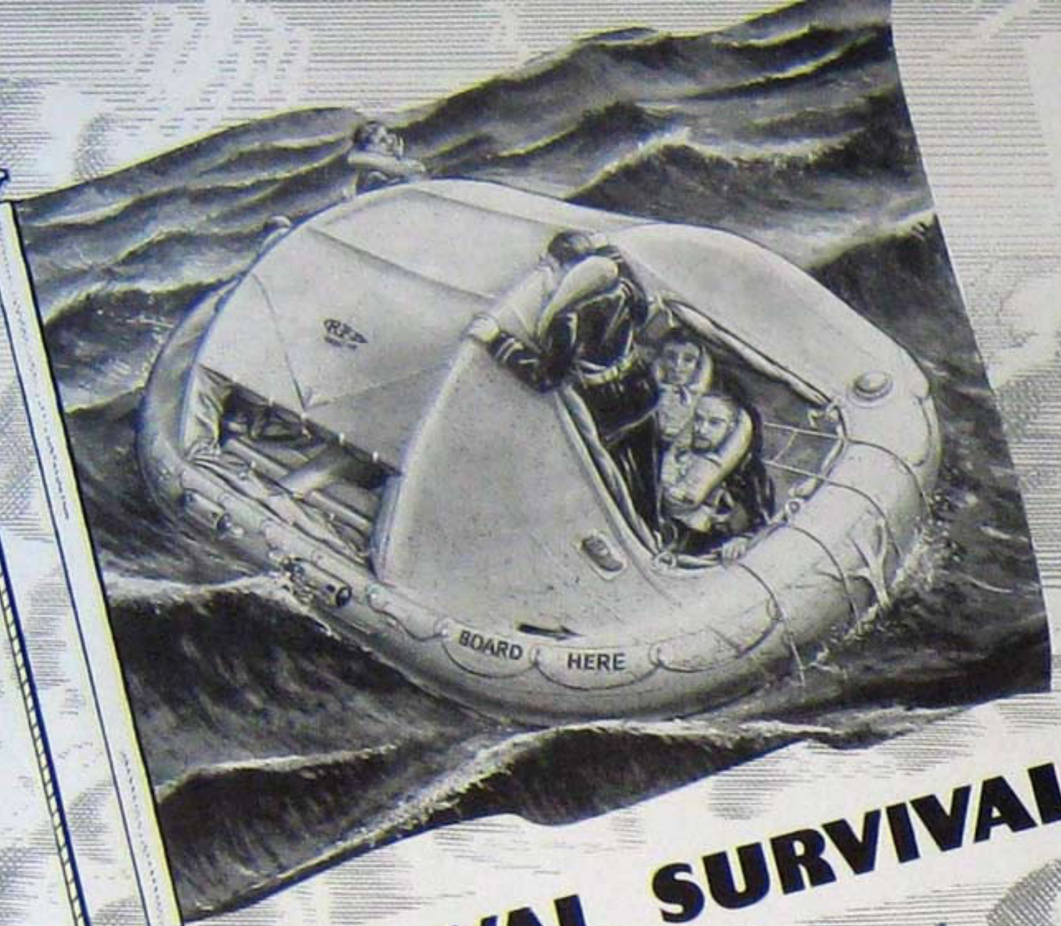

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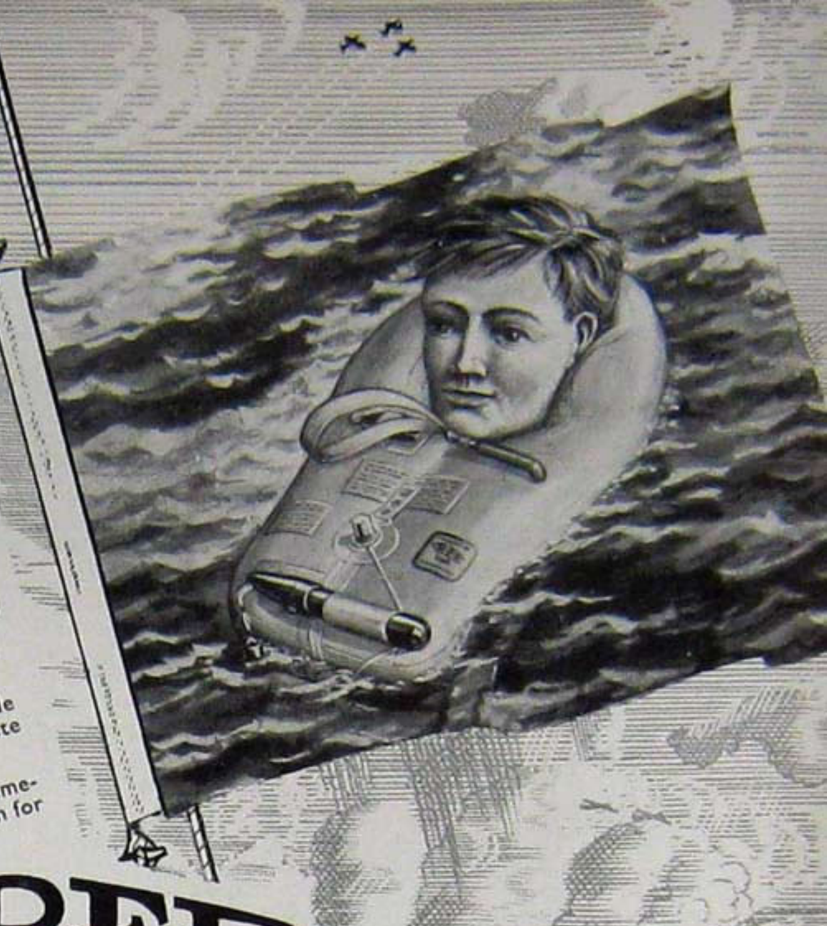

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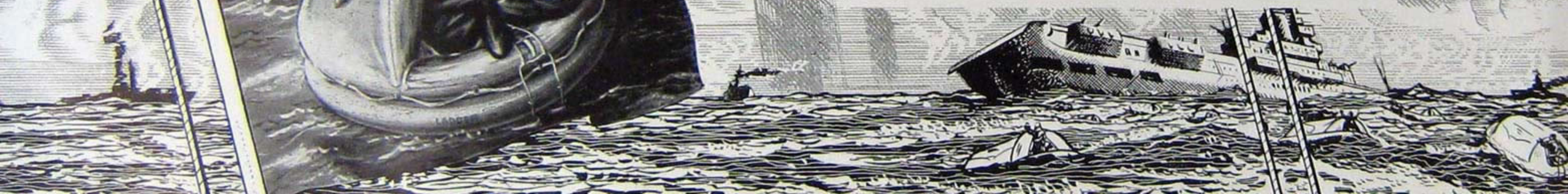

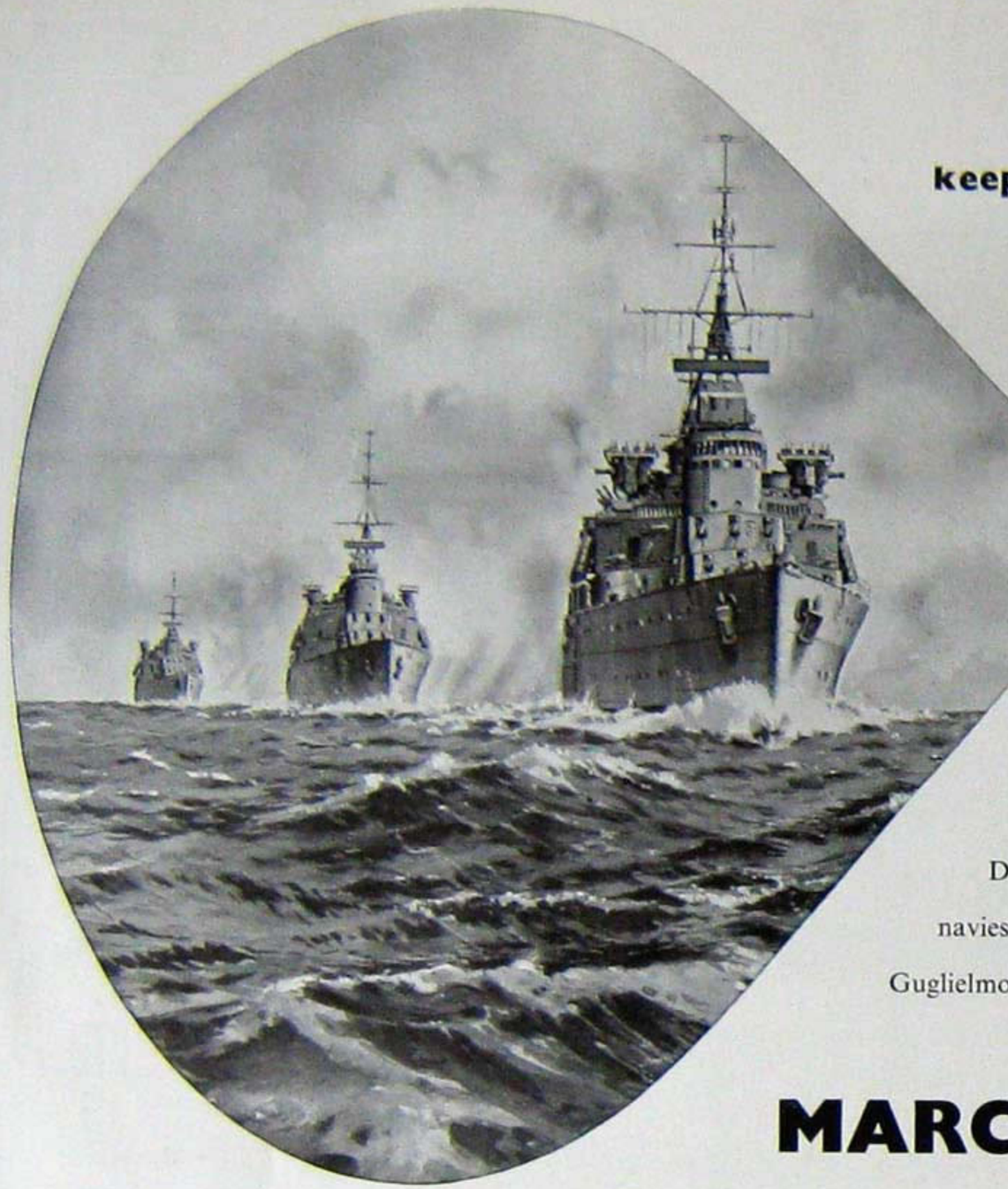

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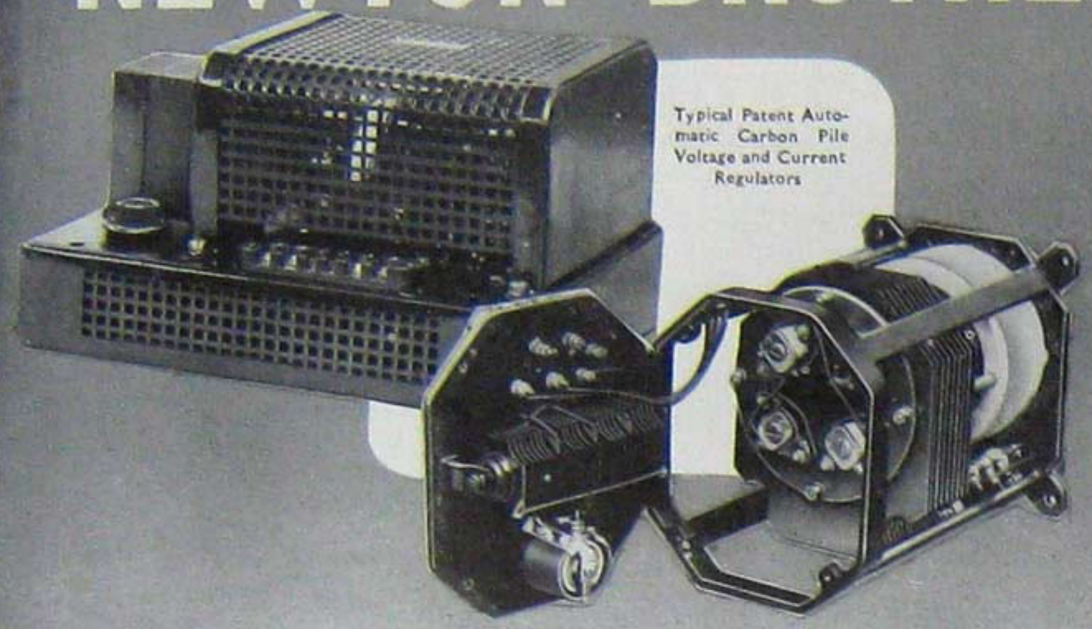

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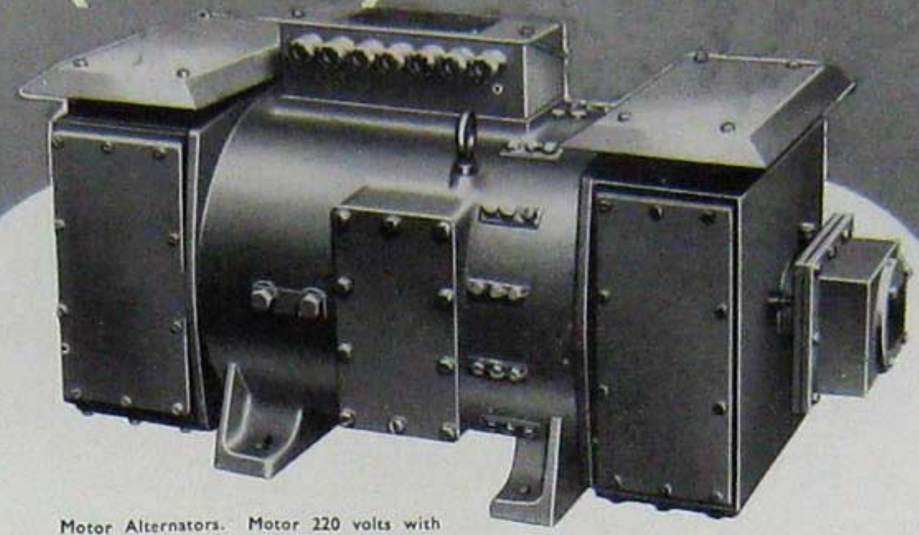

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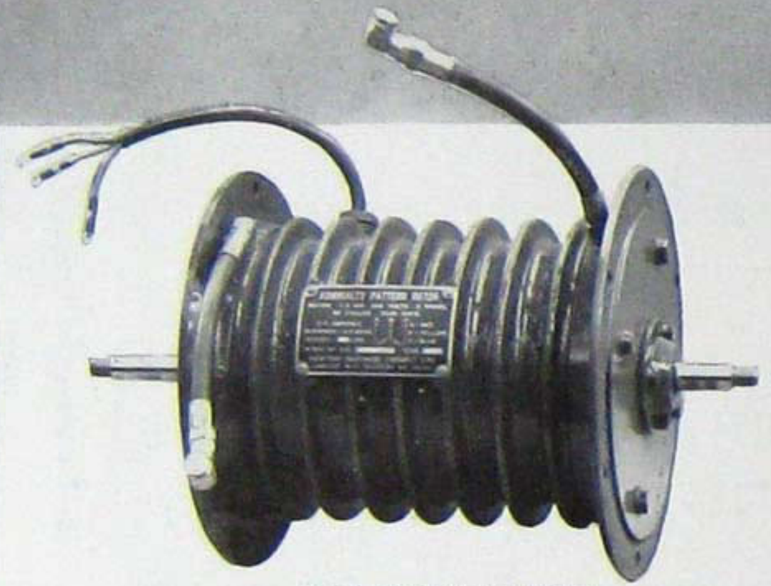

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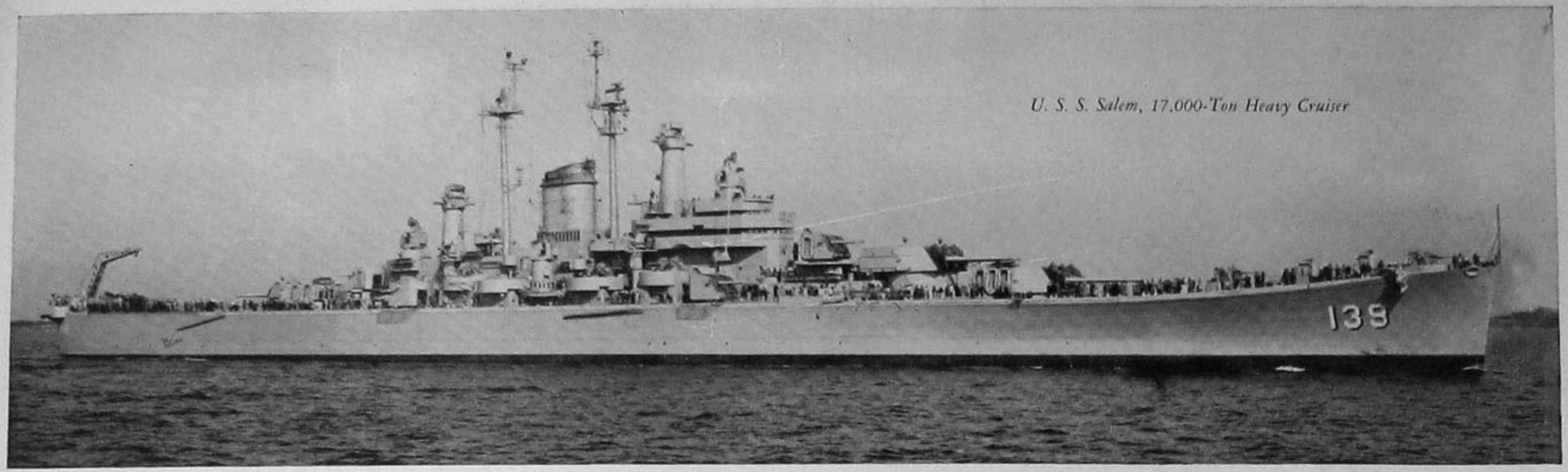

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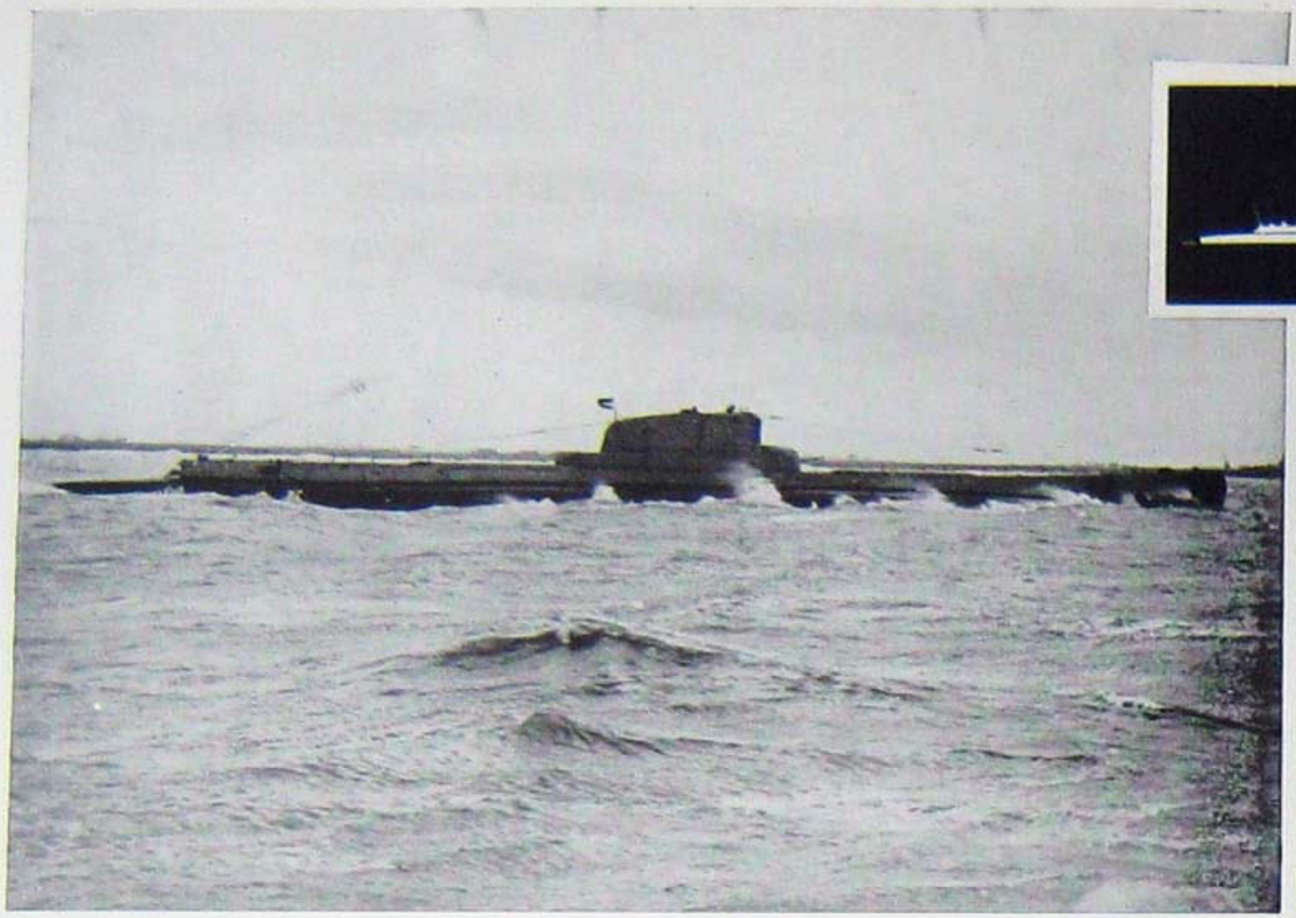
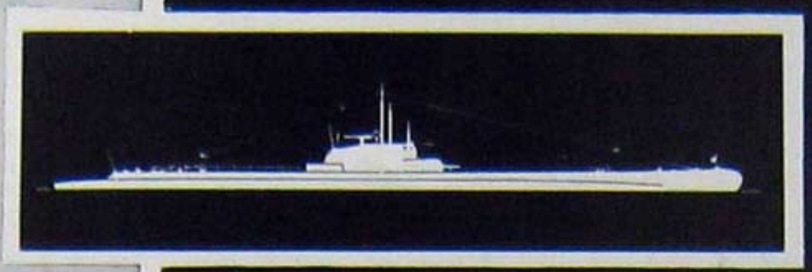


The famous submarine „Orzel"



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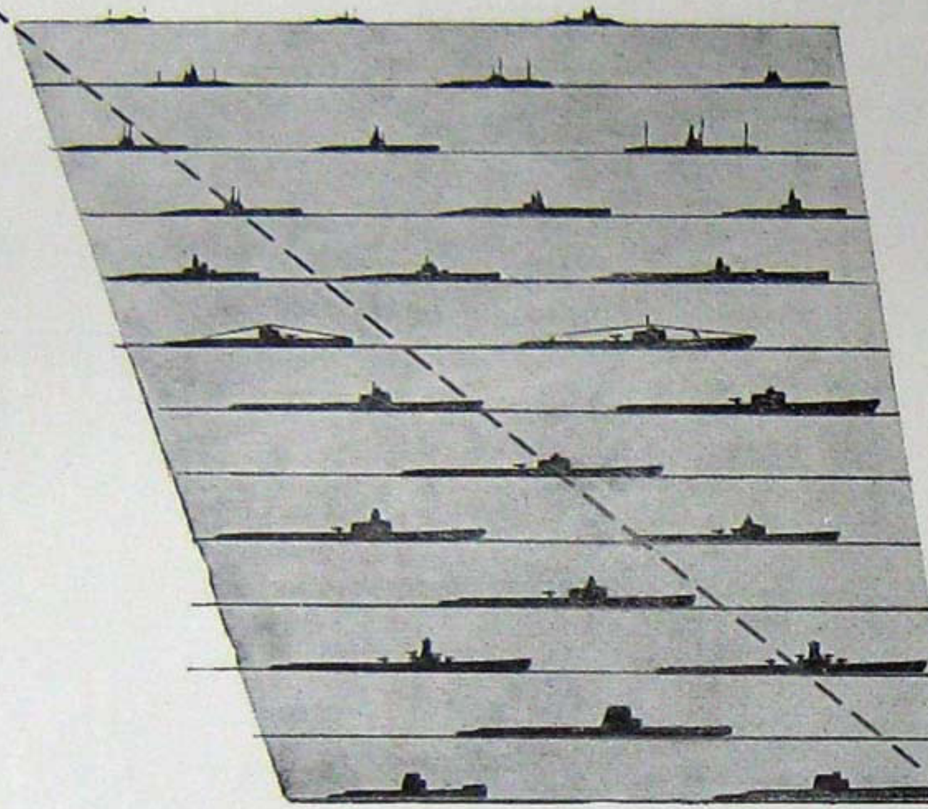

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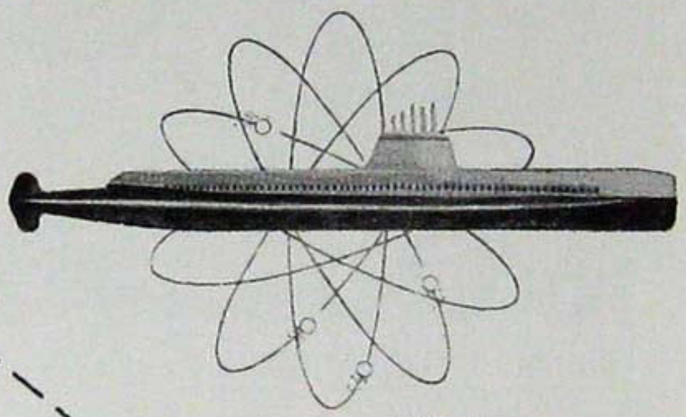

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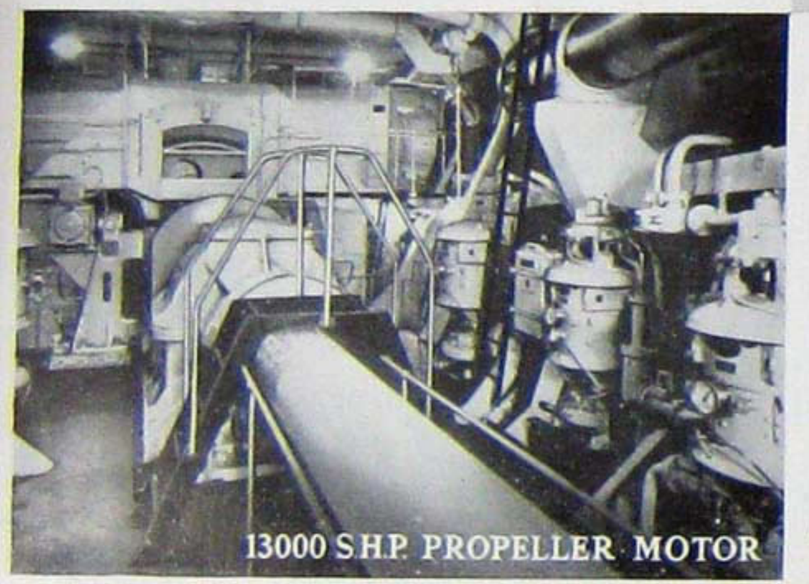

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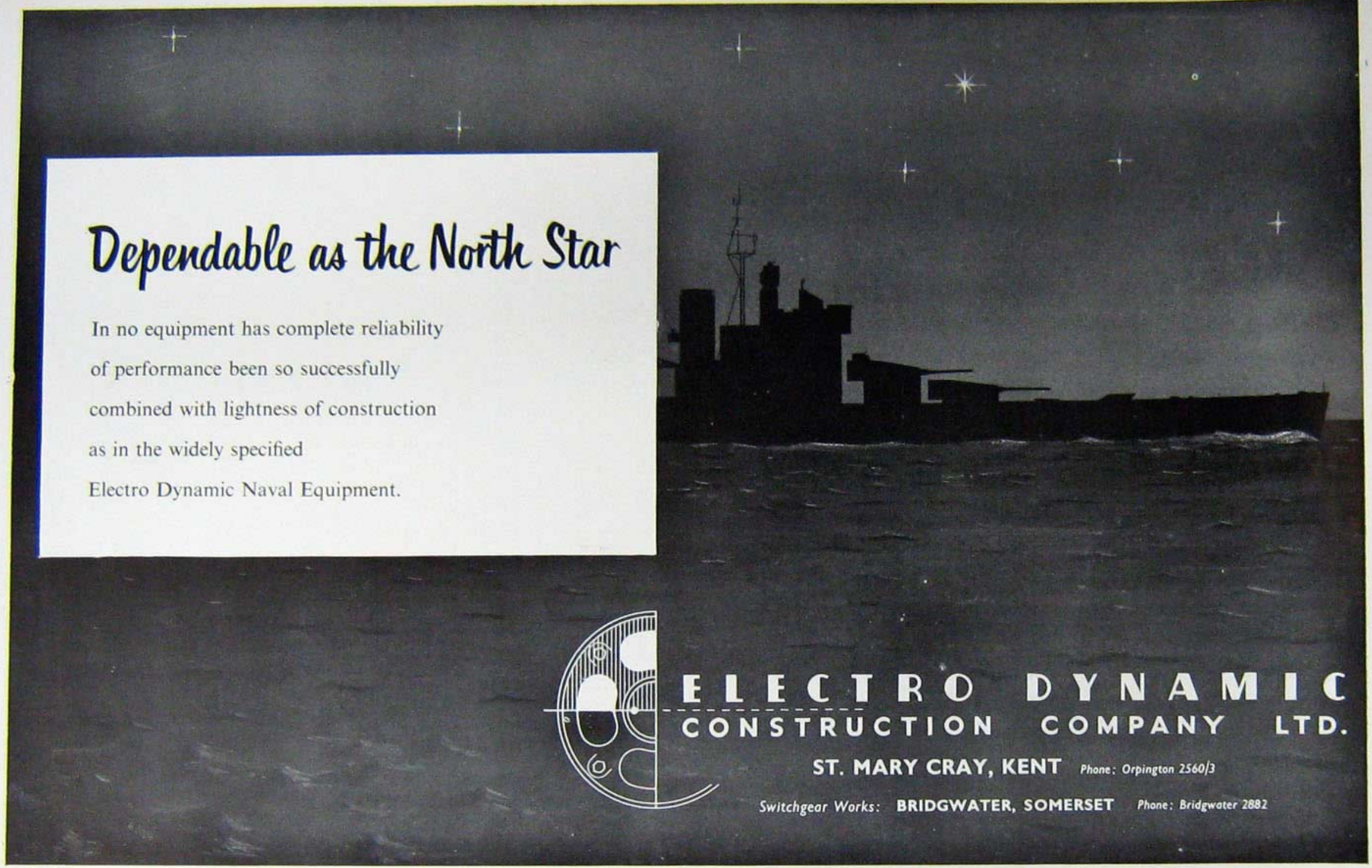
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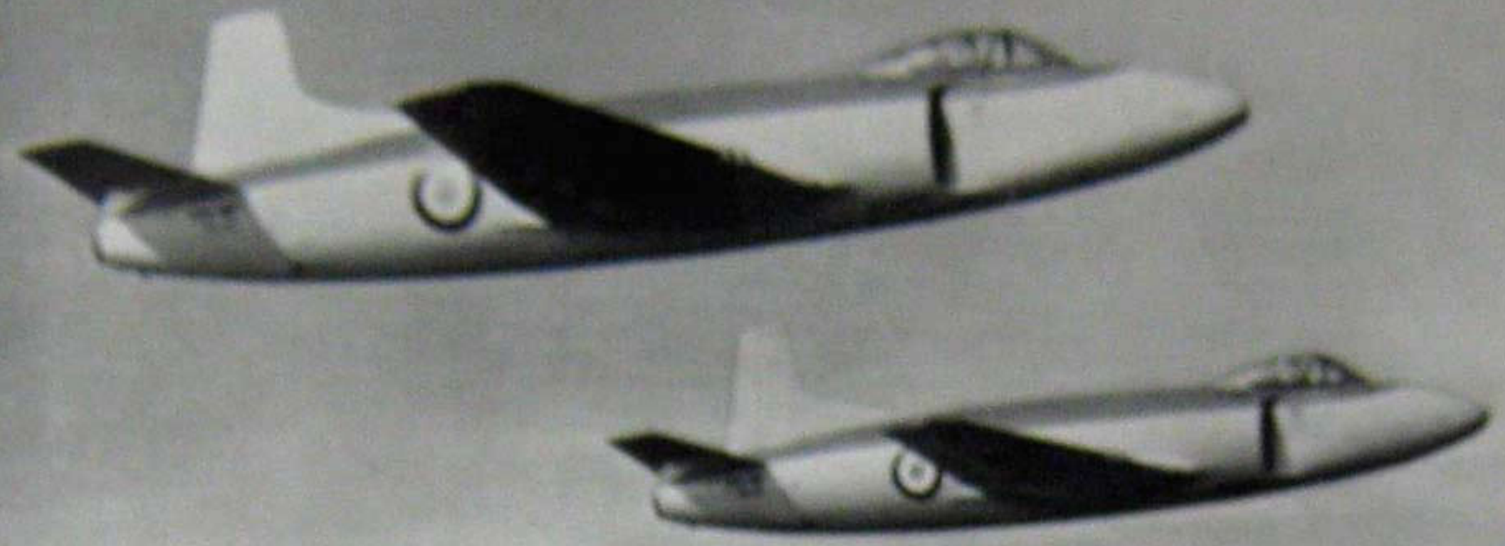

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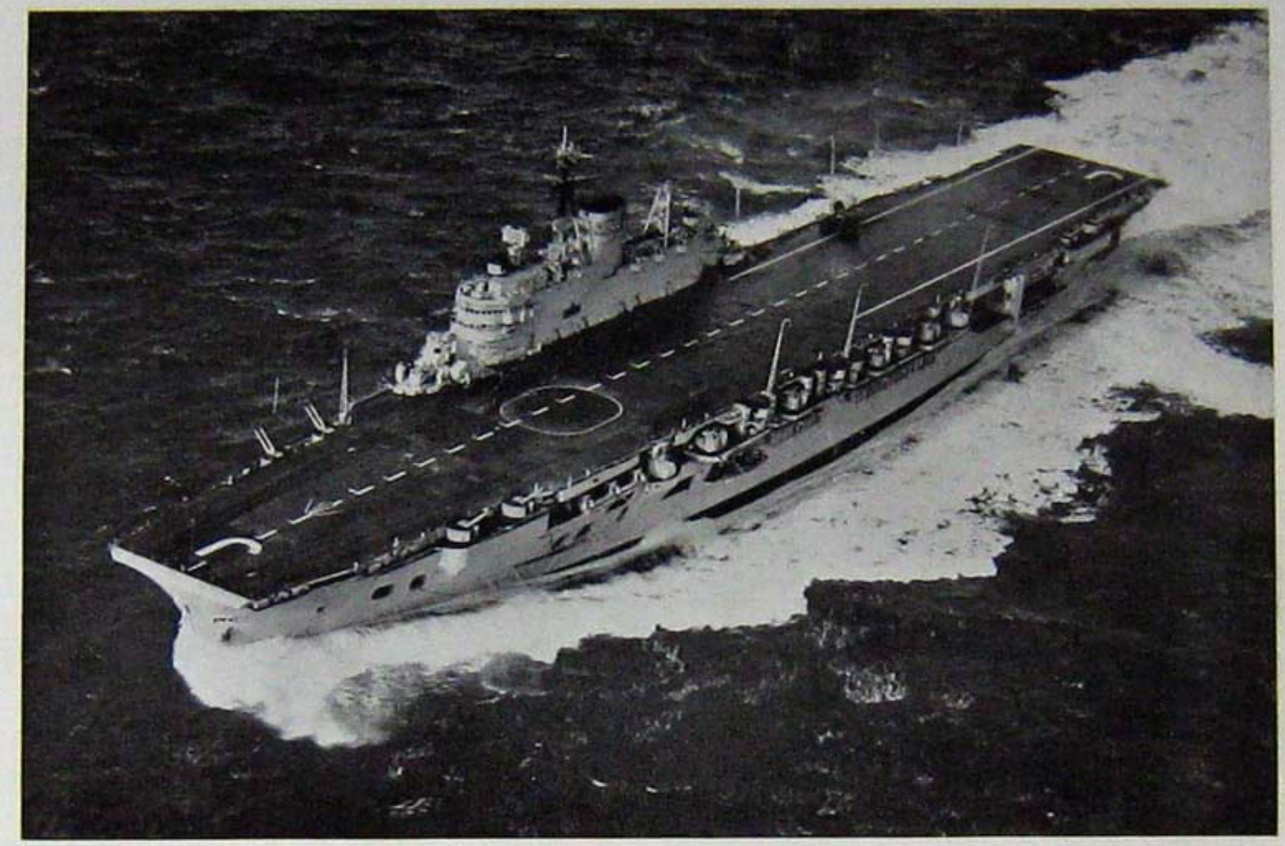

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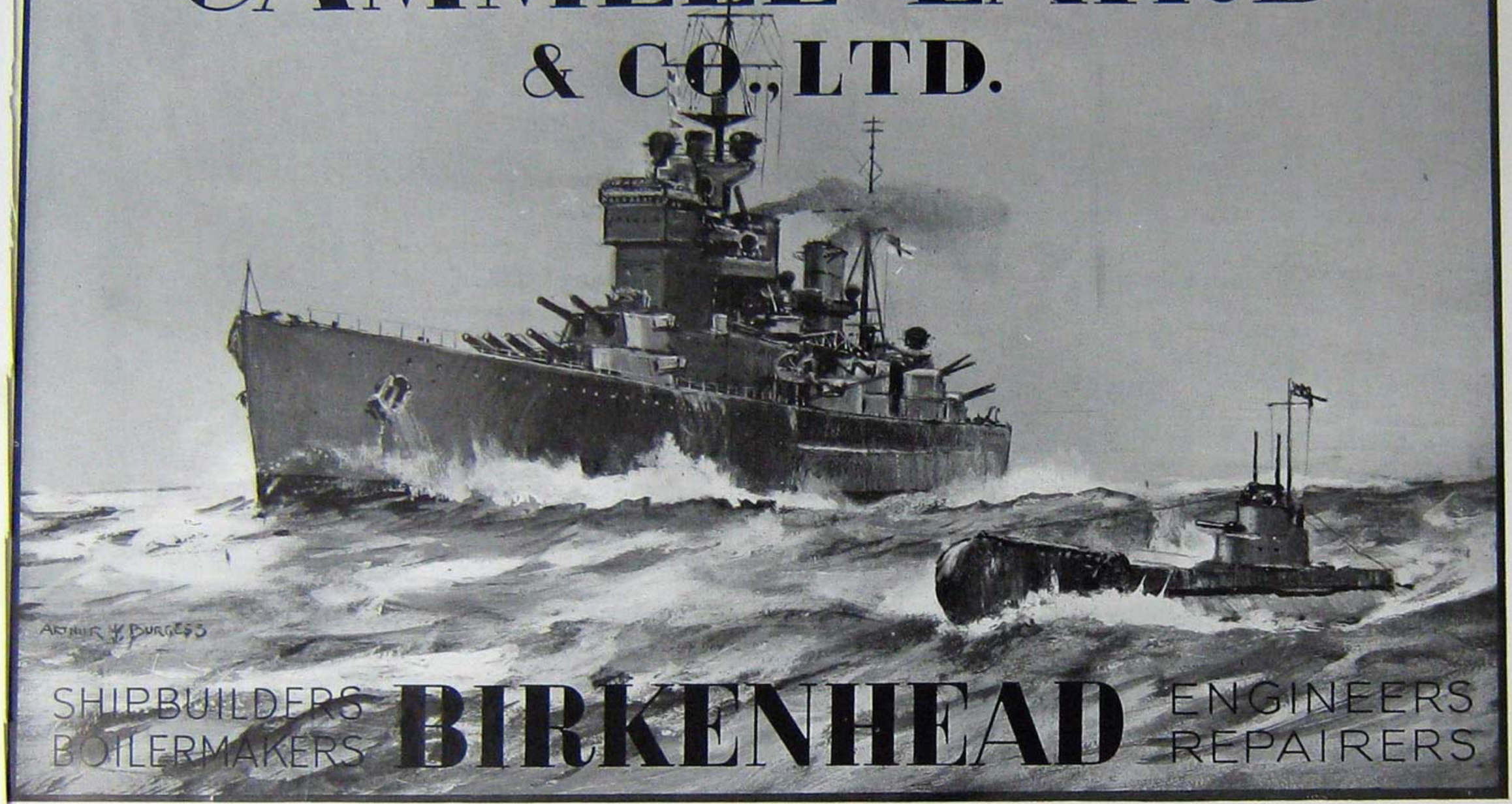

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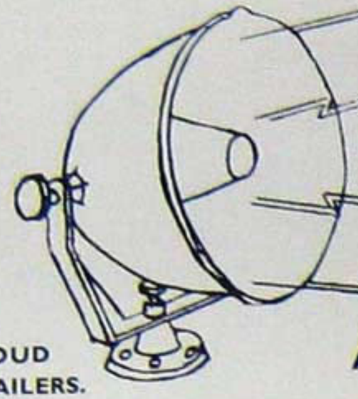

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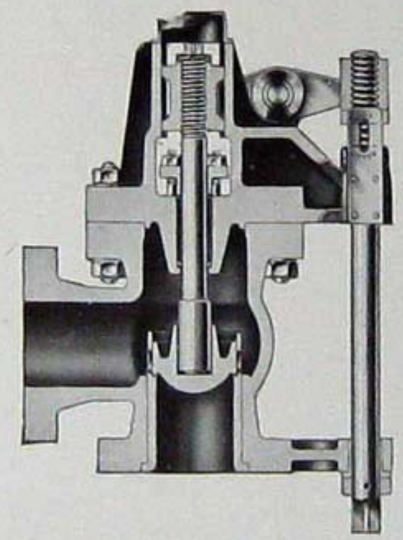

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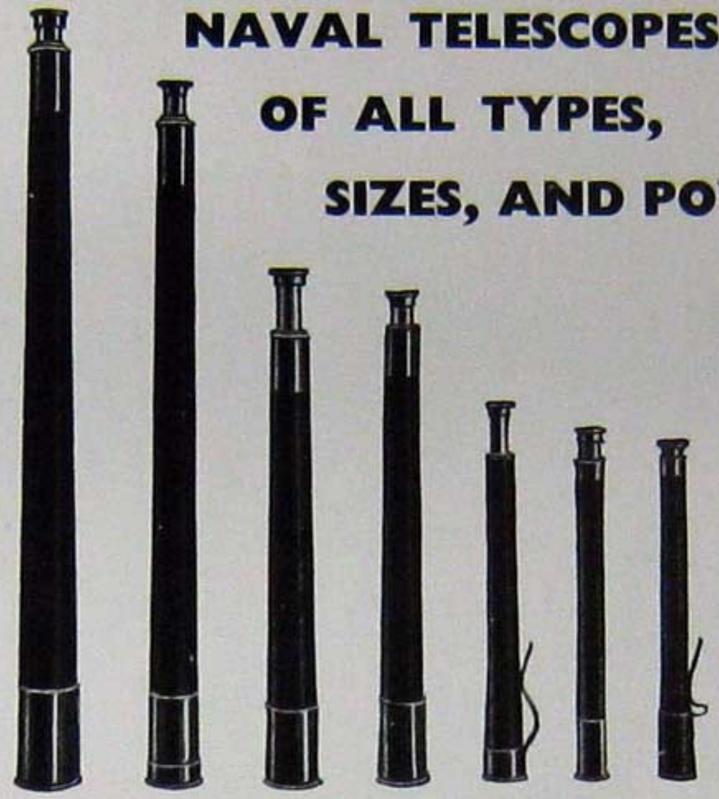

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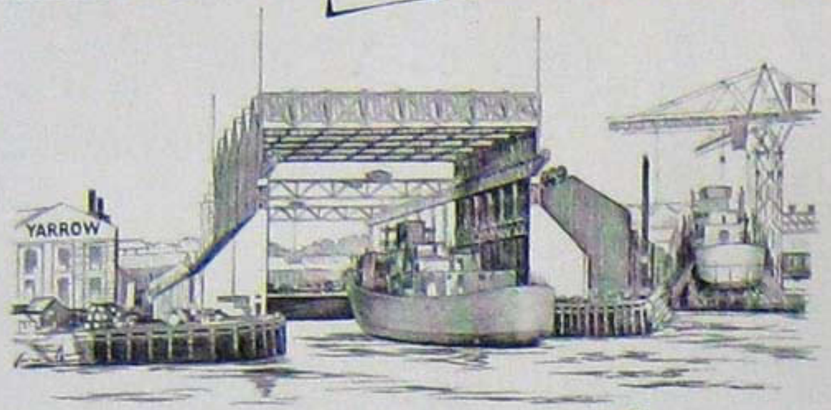

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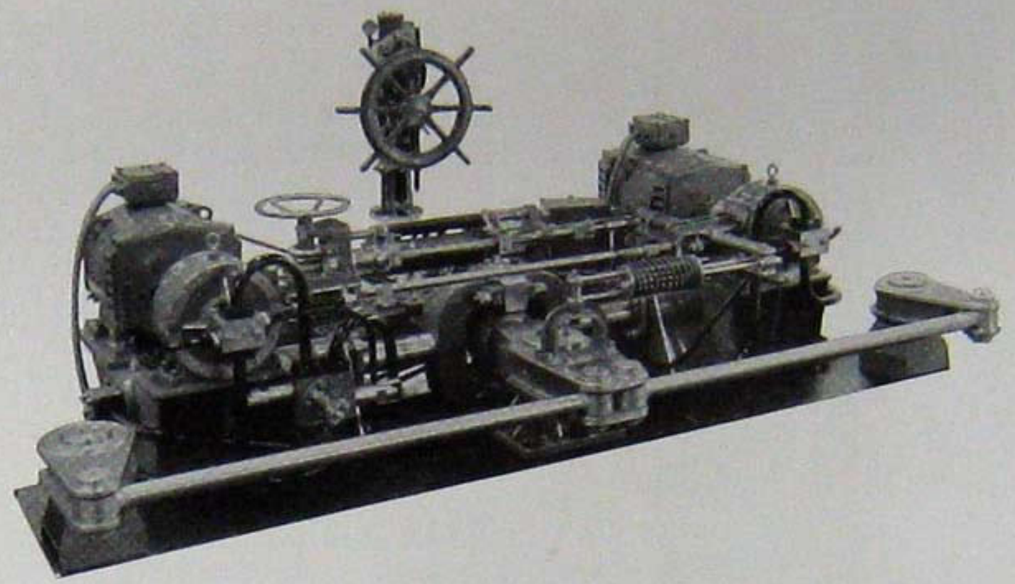

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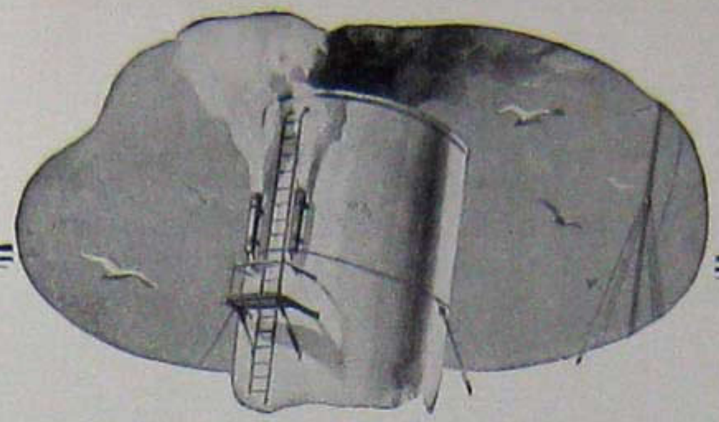

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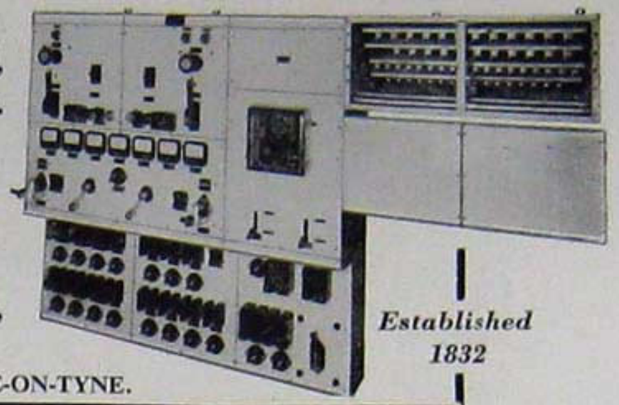

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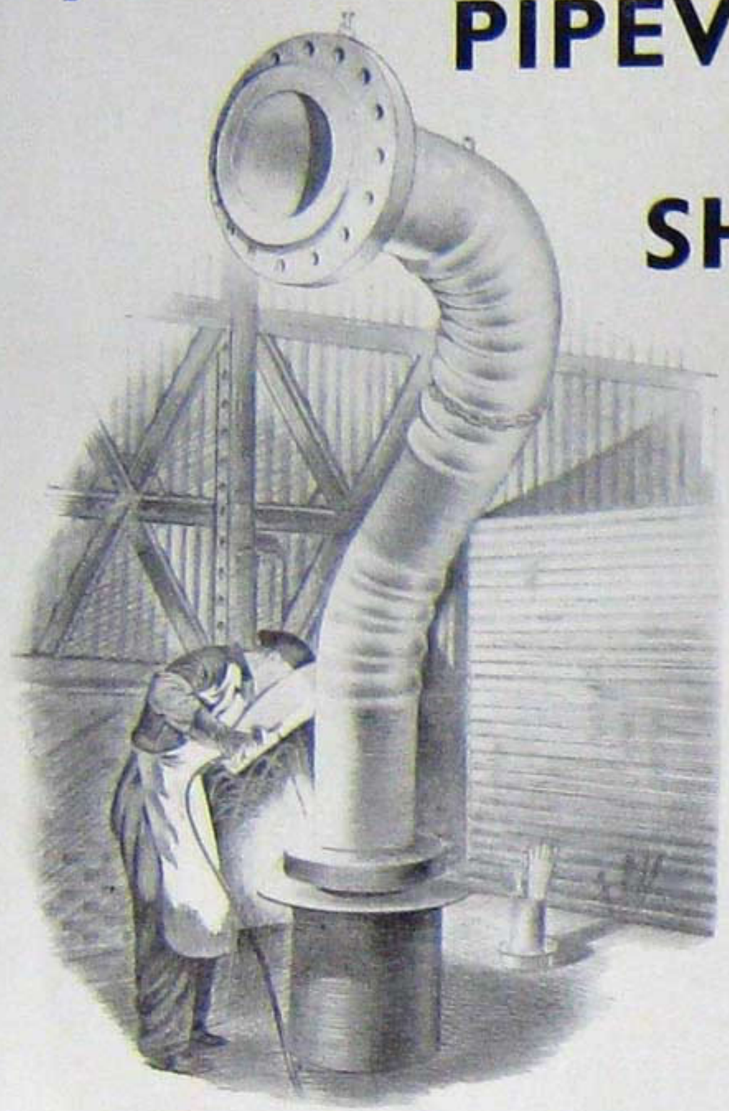

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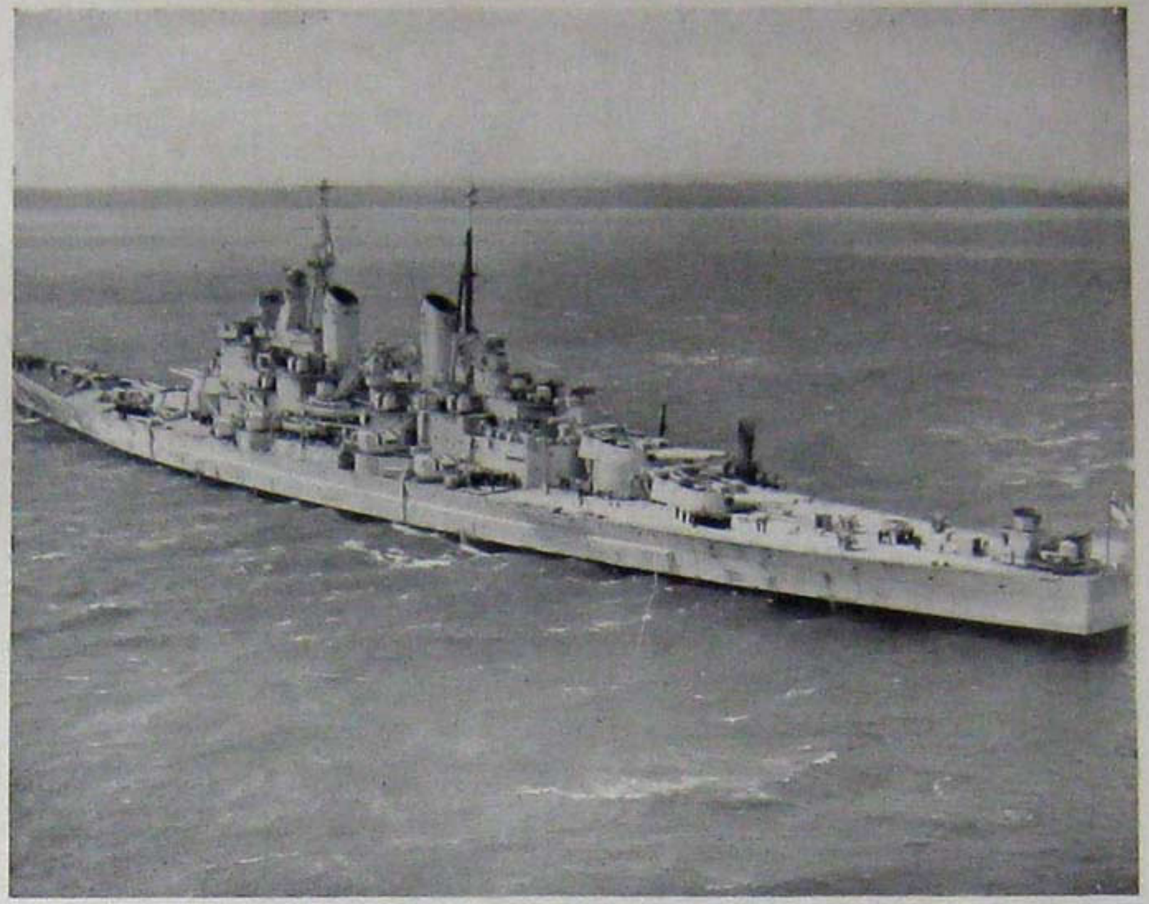

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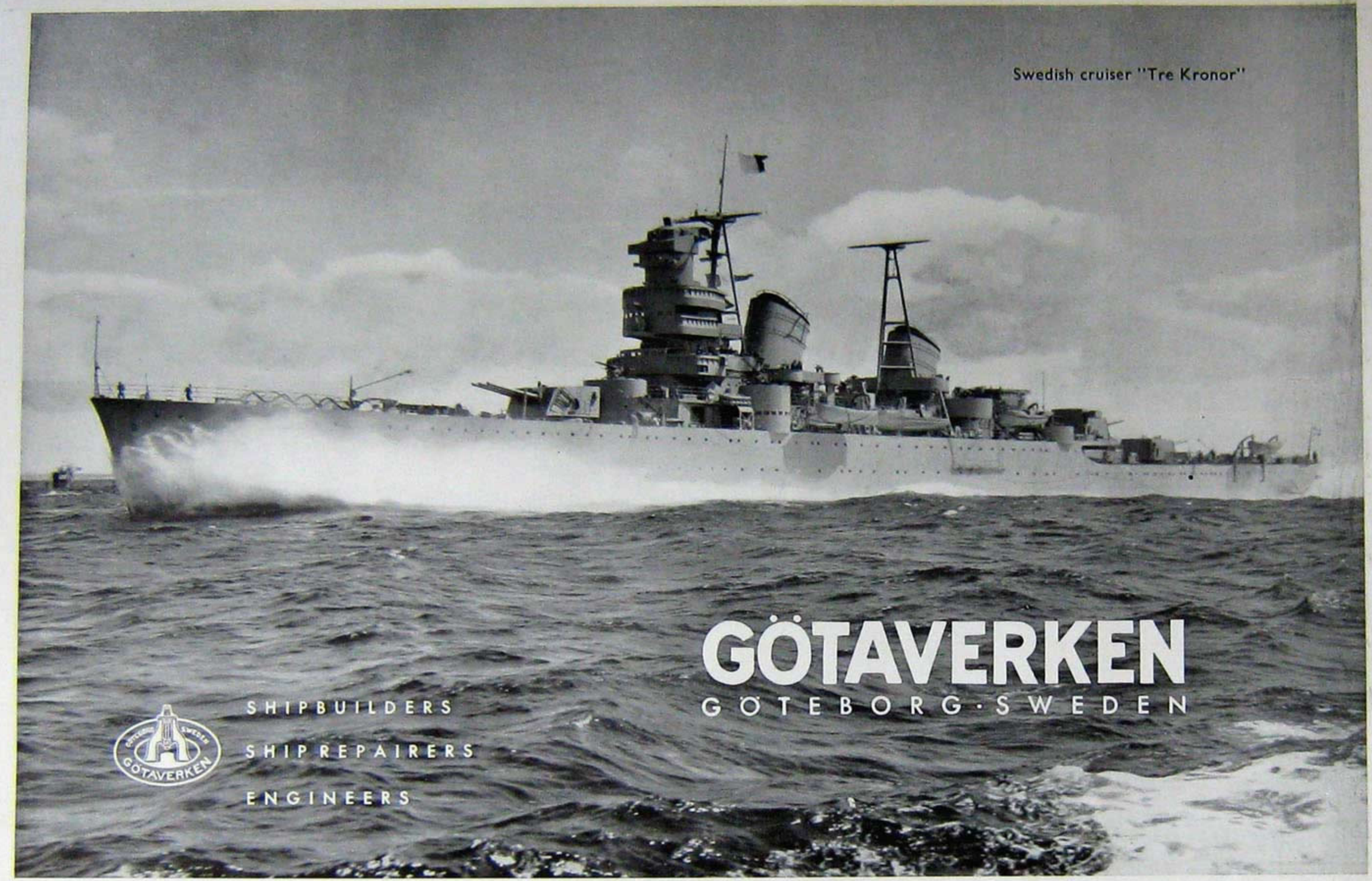
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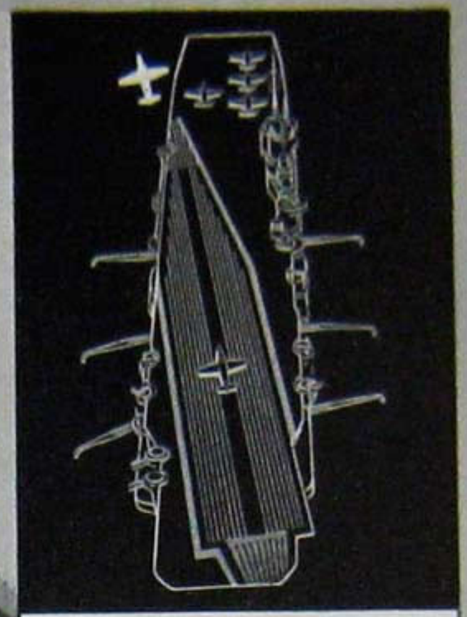

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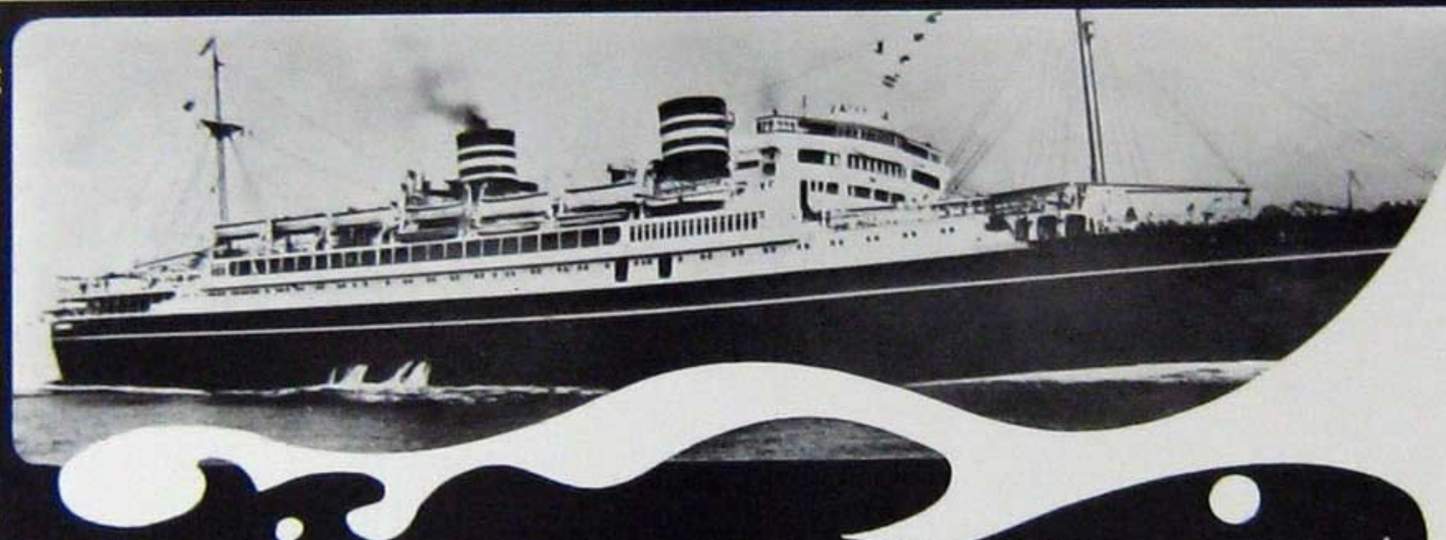

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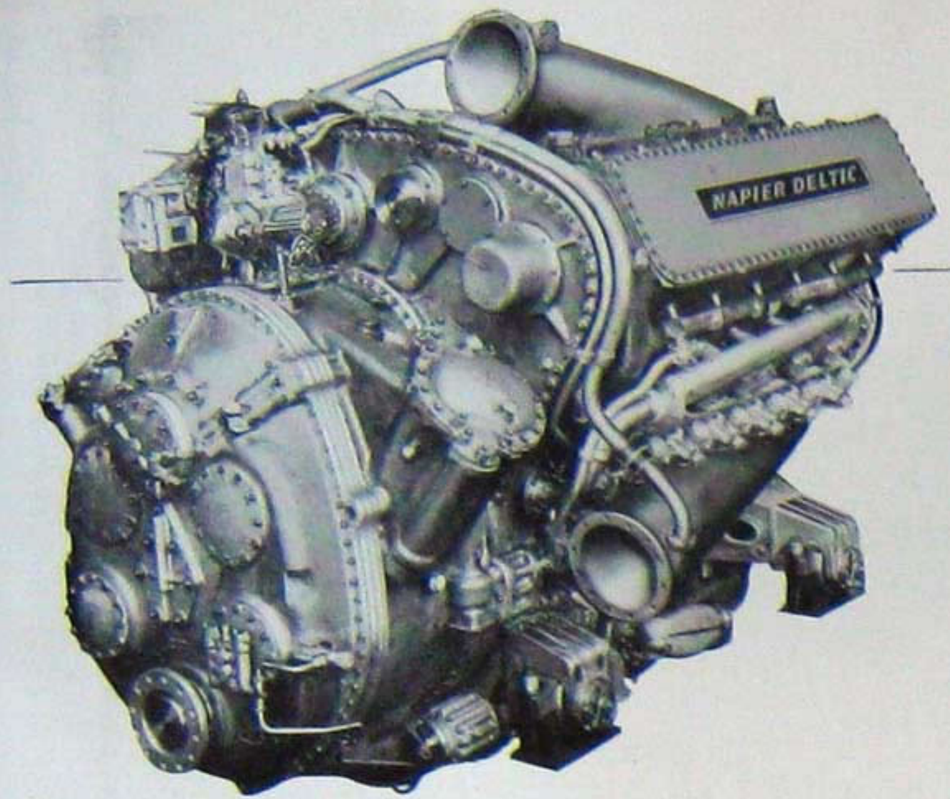

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